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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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AFOSR-R 93 0340

RESEARCH PROPOSAL

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QUARTERLY STATUS REPORT



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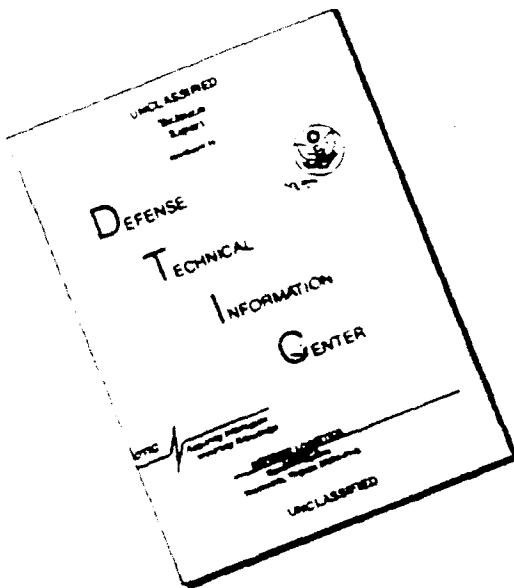
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RESEARCH PROPOSAL QUARTERLY STATUS REPORT

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

AFOSR-TR-43-634C

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH/XPT
110 DUNCAN AVENUE SUITE B116
BOLLING AFB DC 20332-0001

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1a - APPROVAL FOR PUBLIC RELEASE

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1b - SECURITY CLASSIFICATION
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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

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APRIL 1993

INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined, Withdrawn) on each report.

The report is divided into two parts. The Institution index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Materiel Command, DCS/Science Technology.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal.

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further

consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SCIENTIFIC STAFF DIRECTORY
BOLLING AIR FORCE BASE, DC 20332

CCCD - OFFICE OF THE DIRECTOR

Dr Helmut W. Hellwig, Director
Col Arthur L. Pavel, Deputy Director

5017
5017

NC - DIRECTORATE OF CHEMISTRY AND MATERIALS SCIENCE

Dr C I Jim Chang (Director)	EXT 4987	NI - EDUCATION, ACADEMIC & INDUSTRIAL AFFAIRS	EXT 4969
Dr Mitat Birkan	4938	Col Harold S. Rhoads (Director)	4970
Dr Leonidas Sakell	4935	Lt Col V Claude Cavender, Jr (Dep Director)	5013
Dr Spencer Wu	6962	Dr Dale Boland	4971
Dr Walter Jones	0470	Lt Col Seth Wilson	
Dr Julian Fishkoff	0465	NL - DIRECTORATE OF LIFE SCIENCES	EXT 4278
Dr Dan Fant	0471	Dr William O. Berry (Director)	5021
Maj Martin Lewis	6963	Dr Genevieve Haddad	5021
Dr James McMichael	4936	Dr Henry R Radoski	5021
	0470	Dr John Tangney	5021
	0465	Lt Col Stobie	5021
	0471	Dr Stan Dickerson	5015
	6963	Lt Col Dan Collins	5021
	4936	Dr Walter Kozumbo	
	0470	NC - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES	5021
Dr Donald Ball (Director)	4960	MM - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES	5025
Maj Thomas Ernstfield	4960	Dr Charles J Holland (Director)	4940
Dr Charles Y C Lee	4963	Dr Jon Sjogren	5028
Dr Michael Berman	4963	Dr Abraham Waksman	
Lt Col Larry W Burggraf	4960	Capt Steven Suddarth	5028
Dr Fred Hedberg	4963	Dr Neal Glassman	5026
Dr Alan Rosenstein	4960	Dr Arje Nachman	4939
Dr Alexander Pechenik	4963	Dr Marc Jacobs	5021
Capt Charles Ward	4960		
		NE - DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES	
Dr Horst R. Wittmann (Director)	4984	Dr Horst R. Wittmann (Director)	4984
Dr Robert Barker	5011	Dr Robert Barker	
Dr Ralph Kelley	4908	Dr Gerald Witt	
Dr Howard Schlossberg	4906	Dr Howard Schlossberg	
Dr Harold Weinstock	4933	Dr Harold Weinstock	
Dr Alan Craig	4931	Dr Alan Craig	
Maj Gernot Pomrenke	4931	Maj Gernot Pomrenke	
Maj Billy Smith	5011	Maj Billy Smith	

PART 1

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
AIR STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AALEM Associates APL Optics Inc	Lambacki Khai	A. Asif		93-NE-213 93-NE-176 93-NE-198 93-NE-352	A	CRAIG POMRENKE WITT
ASTA Engineering Incorporated Latent System Research Inc.	Sun, Ph.J.	Wei		93-NA-151 93-NC-266		JONES LEE
Advanced Composites Laboratory	Santi	Tom		93-NA-163		JONES
Advanced Systems Laboratory	Tinn	Joseph		93-NM-173		JACOBS
Advanced Technology Materials Inc.	Jayard	David		93-NE-201		WITT
Hiller	Miller	Jonn		93-NE-250	A	WEINSTOCK
Steinbeck	Steinbeck	Jonn		93-NE-205		WITT
Tischner	Tischner	Michael	A	93-NE-202		
Yoo	Yoo	Woo	Sik	93-XO-006	A	BOLAND
Gridgeman	Gridgeman	Charles		93-XO-007	A	BOLAND
Sutari	Sutari	Bruce		93-NA-152	A	SJOGREN
Magars	Magars	Harry	Ann	93-NA-146	A	SAKELL
Haines	Haines	Mary	Ann	93-NA-153	A	MCMICHAEL
Air Force Institute of Technology	Kiawal	Roger		93-XP-002	A	SAKELL
Alabama A&M University	Venkateswarlu	Putcha		93-NA-058	A	LEE
Albert Einstein College of Medicine	Schwartz	Steven	D	93-NC-240		CRAIG
Allied Signal Inc	Goldsberg	Ind		93-NE-290		BURGGRAF
American INC Corporation	Lin	Ching-Fang		93-NC-096		HEDEBERG
Abelco Dyn Corporation	Kembough	Scott		93-NC-201		JACOBS
Arizona State University	Cochran	Douglas		93-NA-158		WITT
Kourris	Kourris	Demitris		93-NE-233		SJOGREN
Aerocas	Aerocas	George		93-NA-166		JONES
Nayer	Nayer	James		93-NE-298		POMRENKE
Rodriguez	Rodriguez	Armando		93-NE-354	A	WITT
Saric	Saric	Willians		93-NM-294	A	JACOBS
Armstrong Laboratory				93-NA-137	A	MCMICHAEL
				93-NI-015	A	BOLAND
Army Research Office				93-NI-016	A	BOLAND
Ishaih Junes				93-NI-017	A	BOLAND
Astralux				93-NI-013	A	BOLAND
Astro Power Division/Astrosystems, Inc.				93-NI-014	A	CAVENDER
Atlantic Research Corp				93-NC-174		LEE
Auburn University				93-NE-175		POMRENKE
Chandrasekhan		P.		93-NE-194		WITT
DiJu		Chang		93-NC-175		BERMAN
DiNetta		Louis		93-NC-194		JONES
Graham		Kenneth		93-NA-193		JONES
Raju		P.K.		93-NA-076		LEWIS
Tedesco		Joseph		93-NA-076		JACOBS
Yos		David		93-NM-177		JACOBS
Sarrow		Roger		93-NM-166	A	JACOBS
Schwarzl		Robert		93-NC-154		LEE
Alnsworth		Calvin		93-NC-200		HEDEBERG
Patteille Pacific Northwest Laboratories				93-NA-130	A	JONES
Terkley Applied Science & Engr.						

REPORT DATE 04/12/93

INSTITUTION INDEX (1 JAN 93 - 31 MAR 93)

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS = 040 = ACCEPTED, 041 = DECLINED, 040 = WITHDRAWN

PAGE 2

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Boeing Co	Luhman	Thomas		93-NC-176	A	ERSTFELD
Boston University	Sar-Sab	Raneer		93-NC-178		BURGGRAF
Hughes	Lee	Jeffrey		93-NL-184		RADOSKI
Jagannathan	Nin-Chang	G.		93-NL-153		STOBIE
Juppitus	Paul			93-NE-204		WITT
Jutt	David	F.		93-NM-153	A	JACOBS
Kersse	Theodore	E.		93-NM-157	A	JACOBS
Sheldon	Steven	E.		93-NM-253		JACOBS
Chu	Irian	V.		93-NC-206		PECHENIK
Chen	Li-Chuan			93-NC-341		SCHLOSSBER
Johnson	Derrick			93-NC-233		PECHENIK
Jay	Warren			93-NA-233		PECHENIK
Jridges	John	C.		93-NA-152		JONES
Jyle	Millies			93-NE-220		POMRENKE
Heinsoen	John	C.		93-NA-131	A	JONES
Knauss	Jon	V.		93-NM-171		JACOBS
Harper	Ed	G.		93-NE-287		CRAIG
	Seth	R.		93-NM-247		JACOBS
				93-NL-091	A	DICKINSON
				93-NA-165	A	JONES
				93-NC-114	A	LEE
				93-NC-258	A	LEE
				93-NE-271		KELLEY
				93-NC-076	A	BERMAN
				93-NC-141		BERMAN
				93-NL-113		KOZUMBO
				93-NA-145		SAKELL
				93-NC-234		PECHENIK
				93-NE-319		POMRENKE
				93-NM-230		WAKSMAN
				93-NC-149		PECHENIK
				93-NA-162		LEWIS
				93-NC-152	A	JACOBS
				93-NC-232		PECHENIK
				93-NM-207		MACHMAN
				93-NE-347		SCHLOSSBER
				93-NE-322		WEINSTOCK
				93-NM-220		GLASSMAN
				93-NC-251		JACOBS
				93-NC-173		LEWIS
				93-NA-184		LEWIS
				93-NA-197		LEWIS
				93-NC-275	D	BURGGRAF
				93-NE-295		CRAIG
				93-NE-293		POMRENKE
				93-NL-127		KOZUMBO
				93-NC-265		HEDBERG
				93-NC-151		BERMAN

INSTITUTION INDEX (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
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INSTITUTION

INVESTIGATOR FIRST NAME MIDDLE

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
	Natlin	Leonard		93-NL-170	SCHLOSSBER	
	Osgood, Jr	Richard		93-NE-346	RADOSKI	
	Spiegel	Edward		93-NL-181	HEDBERG	
	Turro	Nicholas	J	93-NC-082	A	POMRENKE
	Wang	Ken	I	93-NE-321	RHADS	
Competitive Bidding	Longo, Jr	Joseph	T	93-NE-167	A	MEINSTOCK
Conductus, Inc.	Hartans	Jon		93-NE-252	A	MEINSTOCK
Cornell University	Pance	Aleksandar		93-NC-251	A	ERSTFELD
	Cooper	Barbara	H	93-NC-230	A	MEINSTOCK
	DiSalvo	Francis	J	93-NE-241	A	MEINSTOCK
	Eastman	Lester	F	93-NE-285	A	CRAIG
	Holmes	Phillio	J	93-NE-335	SCHLOSSBER	
	Lion	Leonard	H	93-NM-273	NACHMAN	
	MacDonald	Noel	C	93-NA-080	LEWIS	
	Natlin	John	A	93-NE-356	WITT	
	Pope	Stephen	G	93-NE-275	A	BARKER
	Siss	Stephen	L	93-NA-112	A	TISHKOFF
	Shalloway	David		93-NC-105	A	ROSENSTEIN
	Shuler	Michael	L	93-NM-194	A	GLASSMAN
	Spitsbergen	Jan		93-NL-128	A	KOZUMBO
	Steenhuis	Tasso	S	93-NA-112	A	KOZUMBO
CryoPower Associates	Liquer	Henry	L	93-NA-183	A	LEWIS
Crystal Systems, Inc	Khattak	Chandra	P	93-NE-253	A	MEINSTOCK
Crystalline	Landstrass	Maurice	T	93-NE-213	A	CRAIG
				93-NE-196	A	WITT
				93-NE-208	A	WITT
	Phillips	William		93-NE-174	A	CRAIG
	Currie	Malcols	G	93-NM-170	JACOBS	
	Dvorak	Rudolf		93-NA-128	A	FANT
	Hughes	Russell	P	93-NC-219	A	HEDBERG
	Sonnerup	Jengt J.O.	U	93-NL-193	A	RADOSKI
	Asato	Shanie J.		93-NM-166	JACOBS	
	Gonzales	Bobbi		93-XP-001	A	OWENS
	Pittier	Richard	L	93-NL-198	A	STORIE
	Arnett	Kenneth	E	93-NC-119	A	LEE
	Handschy	Mark	A	93-NC-125	JACOBS	
	Chang	dor-Chin		93-NM-208	JONES	
	Wang	Albert	S	93-NA-093	JONES	
	Behringger	Robert	P	93-NA-218	A	LEWIS
	Bejain	Adrian		93-NA-088	FANT	
	Courry	Louis	A	93-NC-208	ERSTFELD	
	Dowell	Earl	H	93-NA-138	A	JONES
	Medina	Miguel	A	93-NA-098	A	LEWIS
	Thomas	John		93-NL-161	N	KOZUMBO
	Virgin	Lawrence		93-NE-363	A	SCHLOSSBER
	Vitter	Jeffery	S	93-NA-125	A	NU
				93-NN-265		SUDDARTH

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Dynacs Engineering Company, INC	Christian	Paul	H	93-NM-167	JACOBS	
Electro-Optek Corporation	Chan	William	S	93-NE-191	POMRENKE	
	Chou	Y.	C	93-NE-195	WITT	
	Jines	Eugene	L	93-NE-171	WEINSTOCK	
Encore Corporation	Huang	C.	F	93-NE-190	POMRENKE	
Essex Corporation	Liu	Heng	S	93-NE-203	WITT	
European Office of Aerospace R&D	Kennedy	Robert	S	93-NL-092	COLLINS	
Excel Semiconductor, Inc	Ganapathi	Kirk	A	93-NE-157	BARKER	
Fiber and Sensor Technologies	Hackett	L	93-NE-211	WITT		
Florida A&M University	Miller	Mark	S	93-NA-150	JONES	
	Krothapalli	Anjaneyulu	S	93-NA-170	MCMICHAEL	
	Lourance	Luz	H	93-NA-235	FANT	
	Hardy	Kenneth	A	93-NE-269	KELLEY	
Florida International University	Levy	Cesar	A	93-NA-194	JONES	
Florida State University	Hollander	Myles	L	93-NM-203	SJOGREN	
	Pfeffer	Richard	L	93-NL-150	STOBIE	
	Baus	Kurt	L	93-NC-261	HEDBERG	
	Tayebatti	Parviz	A	93-NC-124	LEE	
Fluoroches INC	Nogues	Jean-Luc	R	93-NC-267	LEE	
Coster-Miller Inc	Taylor	Peter	R	93-NC-152	BURGRAF	
Self-Tech, Inc.	Honein	Tanios	D	93-NA-149	JONES	
General Atomics	Singpurwalla	Nozer	D	93-NM-223	SJOGREN	
General Science & Technology Inc.	Atluri	Satyia	H	93-NA-210	JONES	
Georgia Institute of Tech	Glezer	Ari	A	93-NA-100	MCMICHAEL	
	Kohl	Paul	A	93-NE-329	WEINSTOCK	
	Koserath	Narayanan	H	93-NA-084	FANT	
	Atluri	Satya	H	93-NA-063	JONES	
	Gole	James	L	93-NC-199	PERRAM	
	Metiu	Horia	L	93-NC-184	ERTSFELD	
	Smialek	James	L	93-NC-194	PECHENIK	
	Jang	Guang-day	L	93-NC-268	LEE	
	Kulkarni	Gururaj	V	93-NC-122	LEE	
	Lu	Hamilton	V	93-NE-224	POMRENKE	
Georgia Tech Research Corporation	Linknam	Michael	S	93-NE-234	WITT	
	Kushawaha	Vikram	S	93-NE-259	SMITH	
Gordon Research Conferences Inc	Leach	Ronald	L	93-NE-336	SCHLOSSBER	
Sumbs Associates, Inc	Raphael	Louise	A	93-NH-279	SUDARTH	
IL Vacuum & Semiconductor Corp	Torrance	Jerry	A	93-NH-228	JACOBS	
Harvard University	Northrop	Gregory	A	93-NE-233	WEINSTOCK	
Toward University	Schwarz	Klaus	A	93-NE-210	POMRENKE	
	Gurainick	Sidney	H	93-NA-163	MCMICHAEL	
	Mandal	Braja	A	93-NE-313	WEINSTOCK	
	Ucci	Donald	K	93-NC-183	LEE	
	Dilling	David	R	93-NM-278	SJOGREN	
	Bunker	S.	R	93-NA-238	FANT	
	Montgomery	Laurence	N	93-NE-231	WITT	
			K	93-NC-203	LEE	

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Innovative Technology Enterprise	Karunasiril	Gambani		93-NE-222	POMRENKE	
Integrated Systems, Inc.	Kosut	Robert	L	93-NM-160	JACOBS	
Interface Foundation of North America	Tarter	Michael		93-NM-204	SJOGREN	
Iowa State Univ. of Science and Tech	Athreya	K.		93-NH-143	SJOGREN	
Iowa State University	Rose	James	H	93-NA-208	JONES	
	Coats	Joe I	R	93-NL-140	KOZUMBO	
	Davidson	Jennifer	L	93-NM-269	SUDDARTH	
	Gordon	Mark	S	93-NC-264	BURGRAF	
	Rose	James	H	93-NE-360	A	WEINSTOCK
Jet Process Corporation	Halpern	Bret	L	93-NC-123	LEE	
Jet Propulsion Laboratory	Bellan	Josette	R	93-NE-180	POMRENKE	
	Harder	Seth	R	93-NC-185	A	BIRKAN
Johns Hopkins University	Dagdigan	Paul	J	93-NC-186	LEE	
	Henry	Richard	C	93-NC-220	BERMAN	
	Michałowski	Radosław	L	93-NL-177	RADOSKI	
	Rust	David	H	93-NA-078	LEWIS	
LAIFIA Technology, Inc	Zmarrico	Any	E	93-NL-093	RADOSKI	
Kansas State University	Au-Yaung	Vincent	C	93-NL-166	SUDDARTH	
	Ram	Alexander	N	93-NC-109	LEE	
	Setser	J.	W	93-NC-160	JONES	
Leopin Corporation	Shastry	Von	W	93-NC-213	BERMAN	
Laser Photonics Technology Inc	Burzynski	Shambhu	K	93-NE-200	WITT	
Laser-Matter Interactions Labs	Cass Stevens	Byszard		93-NC-164	CRAIG	
	Zhang	Martin		93-NE-173	LEE	
Lawrence Berkeley Laboratory	Mukherjee	Tue		93-NC-121	LEE	
Liaison University	Head-Gordon	Anadi		93-NC-156	LEE	
	Fang	Teresa	L	93-NC-157	GLASSMAN	
	Hong	Hsai-Yang		93-NM-184	LEWIS	
Lightfield, Inc.	Hoang	Daniel	C	93-NA-180	LEWIS	
Lindares Management Assoc, Inc. (LMHAINC)	Smith	James	C	93-NA-073	LEWIS	
-Linfield Research Institute	Walker	C R		93-NE-276	POMRENKE	
Lbs Alamos Nat'l Lab--Appl Theor Phys Dv	Wei	J David		93-NA-089	FANT	
Loyola University	Neasean	Robert	P	93-NA-127	JONES	
QIT -- Lincoln Lab	Kia	Robert		93-NA-190	JONES	
QR Technologies, Inc.	Linares	Paul		93-NE-235	WITT	
HSW Inc.	Davis	Jerry		93-NM-193	JACOBS	
	Dick	William		93-NE-193	WITT	
	Yost	Daniel		93-NE-280	BARKER	
	Ehrlich	Robert		93-NC-171	BERMAN	
	Paugh	Kent		93-NL-175	TANGNEY	
	Dueskin	drian		93-NE-357	SCHLOSSBER	
				93-NE-217	WEINSTOCK	
				93-NA-209	JONES	
				93-NA-132	JONES	

INSTITUTION INDEX (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
C Massachusetts Institute of Technology	Allen	Jonathan			93-NE-258	A	SMITH
	Antoniadis	Dimitri			93-NE-263	WITT	
	Atkeson	Christopher			93-NM-107		SUDDARTH
	Brauer	Kenneth		S	93-NA-101	A	MCMICHAEL
	Epsstein	Alan		H	93-NA-236	FANT	
	Field	Robert		W	93-NC-168	BERMAN	
	Graitzer	Edward		H	93-NA-232	FANT	
	Kaufman	Gordon		H	93-NA-132	SJOGREN	
	Kibarling	Lionel		C	93-NE-293	POMRENKE	
	Lee	Min-Chang			93-NE-272	BARKER	
	Martinez-Sanchez	Manuel			93-NA-067	BIRKAN	
	Megusar	Janez			93-NC-211	PECHENIK	
	Mei	Chiang	C		93-NA-074	LEWIS	
	Thomas	Edwin	L		93-NC-215	LEE	
	Toksoz	H. Nafiz			93-NL-108	A	DICKINSON
	Warde	Cardinal			93-NE-237	CRAIG	
	Witt	August		F	93-NE-160	A	WITT
	Loutfy	R.		O	93-NC-120	LEE	
	Ballance	John		S	93-NE-161	A	POMRENKE
	Chatterjee, Ph.D.	Sailendra		N	93-NA-129	JONES	
	Pike	John			93-NE-186	POMRENKE	
					93-NE-185	POMRENKE	
					93-NC-158	LEE	
					93-NC-205	BERMAN	
					93-NL-124	KOZUMBO	
					93-NC-135	BERMAN	
					93-NC-074	BURGRAF	
					93-NA-212	JONES	
					93-NC-103	WILKES	
					93-NM-161	JACOBS	
					93-NA-175	LEWIS	
					93-NL-141	KOZUMBO	
					93-NA-176	LEWIS	
					93-NL-156	KOZUMBO	
					93-NC-148	BERMAN	
					93-NE-181	POMRENKE	
					93-NE-351	POMRENKE	
					93-NE-187	WEINSTOCK	
					93-NE-216	JACOBS	
					93-NM-159	SAKELL	
					93-NA-104	LEE	
					93-NC-118	SJOGREN	
					93-NM-146	MCMICHAEL	
					93-NA-156	MCMICHAEL	
					93-NA-155	KELLEY	
					93-NE-247		

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
NASA - Langley Research Center	McMaster	L. R.		93-NL-084	A	STOBIE
VZ Applied Technologies	Norris	Peter	E	93-NE-230	A	WITT
National Academy of Sciences	Blumenthal	Harjory	S	93-NM-156	A	HOLLAND
	Huey	Beverly		93-NL-100	A	TANGNEY
	Lavery	John		93-NN-155	A	GLASSMAN
National Inst. of Standards & Technology	Manley	Lorraine		93-NL-152	A	DICKINSON
National Research Council	Marquilles	Howard J M		93-NA-174	A	LEWIS
National Science Foundation	Weill	Timothy	S	93-NL-106	A	TANGNEY
Naval Surface Weapons Ctr/White Oak Lab	Yong	Daniel		93-NL-136	A	DICKINSON
Navsys Corporation	Sandusky	Deborah		93-MA-157	A	MCMICHAEL
Neurologic, Inc	Digglean	H.		93-NC-140	A	BERMAN
New Jersey Institute of Technology	Johnson	Frank van	R	93-NE-221	A	JACOBS
New Mexico Institute of Mining and Tech	Hsu	C T Thomas		93-NA-140	A	JONES
New Mexico State University	Oxley	Jianie	C	93-NC-126	A	BERMAN
New York University	Williams	Phartis	E	93-NC-259	A	BERMAN
	Hearn	Thomas	H	93-NL-147	A	DICKINSON
	Avaliandda	Marco		93-NA-173	A	LEWIS
	Inodgrass	Joan	G	93-NL-123	A	TANGNEY
North Carolina Central University	Dutta			93-NL-176	A	STOBIE
North Carolina State University	Leblanc			93-NL-103	A	KOZUMBO
	McRae	Gerald		93-NL-113	A	SAKELL
	Bierseissen	D Scott		93-NA-225	A	JONES
	Closser	Gordon		93-NA-195	A	WU
North Dakota State University	Bryant	Jacob	S	93-NA-143	A	COLLINS
Northwestern University	Rappaport	David	J	93-NL-101	A	JACOBS
	Sillevitch	Carrey		93-NM-280	A	NACHMAN
	Skavenski	Michael		93-NM-226	A	HADDAD
	Spangler	Alexander		93-NL-105	A	LEE
	Achenbach	Charles		93-NC-255	A	JONES
	Kath	Jan		93-NA-062	A	NACHMAN
	Kear	William		93-NM-236	A	JONES
	Harks	Lean		93-NA-096	A	LEE
		Tobin	J	93-NC-134	A	LEE
				93-NC-145	A	NACHMAN
				93-NN-149	A	BURGRAF
				93-MC-102	A	BERMAN
				93-MC-144	A	BERMAN
				93-NC-276	A	BERMAN
				93-NC-161	A	LEE
				93-NH-181	A	JACOBS
				93-NL-146	A	DICKINSON
				93-NI-013	A	ZARO
				93-NM-229	A	NACHMAN
Novex Corp	Hatkowsky	Robert		93-NA-276	A	SJOGREN
JRCNCON Corporation	Ratner	Lawrence		93-NC-187	A	HEDEBERG
Josserante & San Calikto	Heitz	Eric		93-NC-188	A	HEDEBERG
Office of Naval Research						
Ohio State Univ Research Foundation	Forest	David				
	Moses	Robert				
	Traine	Lawrence				
	Tuovinen	Eric				

INSTITUTION INDEX (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

PAGE 8

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Ohio State University	Ahalt		Stanley	C	93-NL-095	TANGNEY	
		Majda	George		93-NM-225	SJOGREN	
		Hiller	Terry		93-NA-147	NACHMAN	
		Dzray	Hitay		93-NE-331	SCHLOSSBER	
		Samay	Mo		93-NA-144	A	WU
		Sierakowski	Robert		93-NA-106	SAKELL	
		Hokari	Ebrahim		93-NA-095	JONES	
		McBee	Karen		93-NE-259	WITT	
		Song	Jin-Joo		93-NL-121	KOZUMBO	
Oklahoma State Univ., Coll. of Arts & Sci	Benjawan		D. Paul		93-NE-316	POMRENKE	
Oklahoma State University	Thompson		Donald	L	93-NM-135	WAKSMAN	
		Grosch	Chester	E	93-NC-113	BERMAN	
		Li	Mu		93-NC-247	BURGGRAF	
Old Dominion University	Robinson		Gerald	O	93-NM-198	JACOBS	
		Schussman	Werner	P	93-NM-161	GROSSMAN	
		Quinn	Jarug	W	93-NE-228	WITT	
		Menon	P.	K	93-NC-271	LEE	
		Radisic	Vesna		93-NE-266	D	SCHLOSSBER
		Lintz	Andrew		93-NN-172	JACOBS	
		Hubbard, Jr.	James	E	93-NC-153	LEE	
		DeFreeze	Richard	X	93-NE-192	WEINSTOCK	
		Sigmon	Thomas	X	93-NE-172	CRAIG	
		Parsons	James	D	93-NE-332	SCHLOSSBER	
Oregon Graduate Institute	Burton, Jr.		Robert	H	93-NE-261	WITT	
Oregon Graduate Institute	D'Ambrosio		Bruce	H	93-NE-281	POMRENKE	
Oregon State University	Mahrt		Larry	J	93-NM-202	A	SJOGREN
	Sleight		Arthur	W	93-NM-138	WAKSMAN	
					93-NL-172	STOBIE	
					93-NE-262	A	WEINSTOCK
					93-NE-315	A	WEINSTOCK
					93-NE-223	A	POMRENKE
					93-NE-254	A	WEINSTOCK
					93-NA-162	SJOGREN	
					93-NA-121	WU	
					93-NC-228	ERSTFIELD	
					93-NA-124	WU	
					93-NE-278	BARKER	
					93-NE-236	D	SCHLOSSBER
					93-NL-088	A	DICKINSON
					93-NL-096	COLLINS	
					93-NC-153	BURGGRAF	
					93-NA-068	BIRKAN	
					93-NL-130	KOZUMBO	
					93-NA-281	GROSSMAN	
					93-NA-064	BIRKAN	
					93-NI-019	BOLAND	
					93-NC-115	LEE	
					93-NC-269	LEE	
Philips Lab - Geophysics Directorate							
Physical Optics Corporation							

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Physical Research Inc.	Shih	Robert	L	93-NE-189	POMRENKE	
Physical Sciences Inc	Fitzpatrick	Gerald		93-NE-166	WEINSTOCK	
Polymacomics Research Institute	Opi,	David		93-NE-355	KELLEY	
Polytechnic Univ. - Weber Research Inst.	Kalhoran	Andrea	M	93-NC-163	BURGRAF	
Polytechnic University	Wolf	Iraj		93-NA-091	FANT	
Prairie View A and M Research Foundation	Masudi	Ed		93-NE-328	WEINSTOCK	
Princeton Electronics System	Ghosh	Houshang		93-NA-210	JONES	
Princeton University	Forrest	Chuniz	R	93-NE-245	POMRENKE	
Jacobs	Stephen	Garry	R	93-NE-324	PORENKE	
Law	C	C	K	93-NL-168	HADDAD	
Miles	Richard	Richard	S	93-NA-061	A	TISHKOFF
Nosanchuk	Daniel	SAKELL		93-NA-229	SAKELL	
Rabitz	Herschel	A		93-NA-227	A	BURGRAF
Swits	Alexander	J	C	93-NC-069	SAKELL	
Stura	Jaees	C		93-NA-182	GASSMAN	
Jyrnes	James	S		93-NA-228		
Espinosa	Horacio	D		93-NA-188	POMRENKE	
Weiner	Andrew	N		93-NC-172	PECHENIK	
Zoltowski	Michael	O		93-NE-163	CRAIG	
Alliean	James	E		93-NM-258	SJOGREN	
Gajaj	Chandrapit	L		93-NA-142	KOLUMBO	
Grandt, Jr	Alten	F		93-NN-185	GASSMAN	
Gunshor	Robert	J		93-NM-243	GASSMAN	
Heister	Stephen	D		93-NA-059	A	JONES
Perky	Joseph	F		93-NE-286	A	POMRENKE
Skelton	R.	E		93-NA-065	A	BIRKAN
Sun	C. T.			93-NN-192	A	GASSMAN
Allaei	Daryoush	D		93-NN-129	A	JACOBS
Hibbs	A.			93-NA-111	A	JONES
Ness	Michael			93-NA-153	A	JONES
Sauillante	Michael			93-NE-170	A	WEINSTOCK
Cola	Julian			93-NC-162	A	LEE
Levi	Mark			93-NE-197	A	WITT
Zhang	Xi-Cheng			93-NA-233	A	NACHMAN
Aixby	Robert			93-NA-275	A	NACHMAN
Wang	K-			93-NE-337	A	SCHLOSSER
Christe	K.			93-NA-196	A	GASSMAN
Bernard	K.			93-NE-358	A	WITT
Shankar	D.			93-NC-203	A	BERMAN
Hadani	V			93-NC-107	A	SAKELL
Haggblom	Itzhak			93-NA-160	A	
Murdocka	Max			93-NA-171	D	
Robert	Miles			93-NL-165	COLLINS	
Shanno	Red			93-NC-197	A	HEDBERG
	David			93-NE-256	A	CRAIG
				93-NN-262	A	GASSMAN
				93-NN-286	F	GASSMAN

INSTITUTION INDEX (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
S.I. Diamond Technologies, Inc	Shiffra	Margaret	M	93-NL-094	TANGNEY	
SRI International	Zylstra	Gerben	J	93-NL-111	KOZUMBO	
SJW Technology Inc	Jamison	Keith	D	93-NE-226	PONRENKE	
Science, Math & Engineering Inc	Podney	Walter	D	93-NE-229	WITT	
Scientific Materials Corp	Faris	Gregory	W	93-NA-169	WEINSTOCK	
Scientific Research Associates, Inc.	Helm	Hanspeter	W	93-NC-189	TISKOFF	
Scientific Systems Co	Jeffries	Jay	B	93-NC-138	BERMAN	
Selidcon, Inc	Kachru	Ravinder	B	93-NE-257	BERMAN	
Sigmas Lab Inc	McMillon	Donald	F	93-NC-137	CRAIG	
Southeastern Louisiana University	Hill	Theodore	F	93-NC-180	BERMAN	
Southeast Research Institute	Saxon	Robert	P	93-NC-190	HEDBERG	
Spectra Diode Laboratories, Inc	Jones	Colin	E	93-NE-350	BERMAN	
Safire Corp.	Burns	Michael	L	93-NA-159	PONRENKE	
Silicon, Inc	Hutchesson	Ralph	L	93-NE-218	JONES	
Sigma Lab Inc	Grubin	Harold	L	93-NE-186	CRAIG	
Santa Barbara Focalplane	Hehra	R.	K	93-NM-158	PONRENKE	
Science, Math & Engineering Inc	Jaworski	James	P	93-NM-176	JACOBS	
Scientific Materials Corp	Yializis	Angelo	L	93-NC-116	LEE	
Scientific Research Associates, Inc.	Rossano	Matt	J	93-NL-122	TANGNEY	
Scientific Systems Co	Blanchard	Cheryl	R	93-NC-112	PECHENIK	
Selidcon, Inc	Nas	Derek	R	93-NE-212	WITT	
Sigmas Lab Inc	Greenwald	Anton	C	93-NE-177	PONRENKE	
Southeastern Louisiana University	Maruska	H. Paul	C	93-NE-206	WITT	
Southeast Research Institute	Namavar	Ferrydoon	C	93-NE-353	PONRENKE	
Spectra Diode Laboratories, Inc	Greenwald	Anton	H	93-NE-178	PONRENKE	
Safire Corp.	Karas	Nasser	H	93-NE-183	PONRENKE	
Silicon, Inc	Herrmann	Robert	B	93-NL-086	DICKINSON	
Sigma Lab Inc	Boyd	Stephen	B	93-NM-115	JACOBS	
Silicon, Inc	Dvorkin	Jack	B	93-NA-077	LEWIS	
Silicon, Inc	Fayer	Michael	D	93-NC-167	BERMAN	
Silicon, Inc	Inan	Umaran	S	93-NL-180	RADOSKI	
Sigma Lab Inc	Siegaan	Anthony	E	93-NE-338	SCHLOSSBER	
Silicon, Inc	Simo	Juan	C	93-NM-123	JACOBS	
Silicon, Inc	Zare	Richard	N	93-NC-226	BERMAN	
Silicon, Inc	van den Pol	Anthony	N	93-NL-109	HADDAF	
Silicon, Inc	Hassett	John	P	93-NC-196	HEDBERG	
Silicon, Inc	Chiang	Fu-Pen	P	93-NA-204	JONES	
Silicon, Inc	Likharev	Konstantin	K	93-NE-330	WEINSTOCK	
Silicon, Inc	Metcalf	Harold	K	93-NE-270	KELLEY	
Silicon, Inc	Nasrabadi	Nasser	K	93-NM-216	JACOBS	
Silicon, Inc	Prasad	Paras	N	93-NC-244	LEE	
Silicon, Inc	Seauel	Arthur	G	93-NL-174	TANGNEY	
Silicon, Inc	Sikka	Harish	C	93-NL-126	KOZUMBO	
Silicon, Inc	Swolka	Scott	C	93-NM-187	SUDARARTH	
Silicon, Inc	Wu	Neng Eva	A	93-NM-215	JACOBS	
Silicon, Inc	Yu	Jiqing	A	93-NM-190	SJOGREN	
Silicon, Inc	Kalyon	Dilhan	A	93-NA-197	JONES	
Stevens Institute of Technology						

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Structural Materials Research	Chan	Wen	S	93-NA-135	JONES	
Structured Materials Industries (SMI)	Kis	S. I.		93-NE-207	WITT	
Sun	G-			93-NE-188	POMRENKE	
Chow	Peter			93-NE-225	A	POMRENKE
Van Hove	James			93-NE-232	A	WITT
Domben	Peter			93-NE-333	A	WITT
Weiner	Donald	D		93-NA-231	A	SJOGREN
Craig	Gray	L		93-NA-283		SUDDARTH
LaGraff	John	E		93-NA-231		FANT
Yarshney	Pranod	K		93-NC-239		SJOGREN
Bachtai	James	H		93-NC-117	A	LEE
Salour	Michael	H		93-NC-260	A	LEE
Chalichenko	G.	H		93-NC-144	D	TANGNEY
Sabri	Heba			93-NA-163	JACOBS	
Kerr	Thomas			93-NA-180	JACOBS	
Labels	Mortimer			93-NE-317		WEINSTOCK
Sullivan	Thomas			93-NE-326		WEINSTOCK
Chen	Goong			93-NA-221		JACOBS
Fabiano	Richard	H		93-NA-130		JACOBS
Halverson	Don	R		93-NA-219		SJOGREN
Pradhan	Dhiraj	J		93-NA-285	A	SUDDARTH
Yanca				93-NA-154	A	JONES
Junkins	John	L		93-NA-122		WU
Kurdila	A. J.			93-NA-120		WU
Schoberi	F.			93-NA-136		FANT
Zerda	T. Waldek			93-NC-129		ERSTFIELD
McIntire	Harold	O		93-NA-174		JACOBS
Weinman	Leslie			93-NE-199		WITT
Paulson	Andrejs			93-NE-168		WEINSTOCK
Yanags	Richard			93-NC-129		JACOBS
Smith	Lambros			93-NA-175		KOZUMBO
Katayfylotis	Frank			93-NA-145		JONES
Kelley	T. J.			93-NE-192		LEE
Chung	Larry			93-NA-204		SAKELL
Krannich	Daniel			93-NA-226		BERRAN
Swift	Harrison			93-NC-131		JACOBS
Barrett	Mark			93-NA-211	A	CRAIG
Brusseau	Paul			93-NE-266	A	CRAIG
Calvert	Tom			93-NC-254	A	CRAIG
Gehrels	J.			93-NL-179	A	CRAIG
Holoney	Mark			93-NE-164	A	CRAIG
Heifeld	A.			93-NE-162	C	CRAIG
Newell	Nasser			93-NC-239	C	LEE
Peyghassarian				93-NE-214	A	CRAIG
Wallace	Terry			93-NL-154	A	DICKINSON
Witten	Mark			93-NC-116		KOZUMBO
Pulay	Peter			93-NC-147		BURGRAF
Juv of Arkansas						

INSTITUTION	INVESTIGATOR LAST NAME	INVESTIGATOR FIRST NAME	MIDDLE	PROPOSAL STATUS	PROPOSAL PM NAME
Univ of California, Berkeley	Seliao	Gregory	J	93-NE-303	POMRENKE
	Concus	Paul		93-NM-145	NACHMAN
	Hirsch	Morris	W	93-NM-240	SUDDARTH
	Hu	Chenming		93-NE-267	SMITH
	Jeanloz	Raymond		93-NL-158	DICKINSON
	Lau	Kas		93-NE-302	CRAIG
	Horse	Edward	C	93-NM-148	NACHMAN
	Newmark	Daniel	N	93-NC-143	BERMAN
	Ritchie	Robert	O	93-NC-236	BERMAN
	Smith	John	S	93-NC-246	ROSENSTEIN
	Strain	John		93-NE-300	WITT
	Zakhor	Avidah		93-NE-262	CRAIG
	Brenner	George	R	93-NA-210	JACOBS
	Liu	Ji-The		93-NM-205	SJOGREN
	Mukherjee	Asiya	K	93-NE-327	NACHMAN
	Rehfield	Lawrence	N	93-NC-248	WEINSTOCK
	Wang	Jane-Ling		93-NA-196	JONES
	Apkarian	V.	A	93-NM-217	SJOGREN
	Benford	Gregory	A	93-NC-099	GERMAN
	Narens	Louis		93-NE-277	BARKER
	Pazzani	Michael		93-NL-146	TANGNEY
	Scherson	Isaac		93-NM-235	WAKSMAN
	Schmidtendorf	U.	E	93-NM-254	SUDDARTH
	Shea	Kenneth	J	93-NC-214	JACOBS
	Sperling	George	S	93-NL-217	LEE
	Lade	Paul	V	93-NA-066	TANGNEY
	Hackenzi,	Jonn	D	93-NA-216	LEWIS
				93-NC-081	ERSTFIELD
	Hal	Ajit	K	93-NC-177	ERSTFIELD
	Pearl	Judea		93-NA-060	JONES
	Wang	Kang	L	93-NM-104	WAKSMAN
	Zhong	Xiaolin		93-NE-266	SMITH
	Goddard	Joe		93-NA-172	SAKELL
	Kadtko	James	D	93-NA-070	LEWIS
	Kussell	Andrew	B	93-NM-137	JACOBS
				93-NC-173	ERSTFIELD
	Pineda	Jaine	C	93-NC-214	HADDAD
	Spinney	David	A	93-NL-081	TANGNEY
	Weare	John		93-NC-087	BURGGRAF
	Williaes	Forseen	H	93-NC-165	TISHKOFF
	Allan	S. James	A	93-NA-116	POMRENKE
	Auschalow	David	D	93-NE-295	WEINSTOCK
	Bowers	Michael	F	93-NC-080	BERMAN
	Laub	Alan	J	93-NC-098	BERMAN
				93-NA-259	JACOBS

Univ of California, San Diego

Univ of California, Santa Barbara

REPORT DATE 04/12/93

INSTITUTION INDEX (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

PAGE 13

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PR NAME
Jniv of California, Santa Cruz	Bridgeman	Bruce	S	93-NL-186	COLLINS	
Jniv of Carleton	Wright	J.		93-NC-270	BERMAN	
Jniv of Central Florida	Richardson	Martin	C	93-NE-345	SCHLOSSBER	
	Stegeman	George	I	93-NC-207	LEE	
Jniv of Chicago	Huttenlocher	Janelle		93-NE-299	CRAIG	
	Rhodes	Charles	K	93-NL-178	TANGNEY	
	Sibener	Steven	J	93-NE-348	SCHLOSSBER	
				93-NA-203	JONES	
Jniv of Cincinnati	Dorsay	John	S	93-NC-250	ERSTFELD	
	Ghia	Kirti	N	93-NC-263	A	ERSTFELD
	Gursul	Ismet		93-NA-085	A	KOZUMBO
	Hubbard	Arthur	T	93-NA-159	FANT	
	Mark	James	E	93-NC-233	WILKES	
	Zoe	R.	J	93-NC-249	LEE	
	Sivaganesan	Siva	J	93-NC-272	LEE	
	Abicowitz	Hank		93-NC-179	LE	
	Cathay	W.		93-NW-131	SJOGREN	
				93-NW-264	NACHMAN	
	Douglas	Kenneth		93-NE-215	CRAIG	
	Fritts	David	C	93-NE-249	CRAIG	
	Glover	Fred		93-NE-308	WEINSTOCK	
	Manalingaw	Shankar		93-NC-151	STOBIE	
	Nesbitt	David	J	93-NC-191	GLASSMAN	
	Schnabel	Robert		93-NA-071	BIRKAN	
	Bar-Shalom	Yaakov		93-NC-169	BERMAN	
	Clapp	Philip	R	93-NC-231	BERMAN	
	Hadych	Moldovayr		93-NM-186	GLASSMAN	
	Detrio	John	A	93-NM-100	GLASSMAN	
	Karpur	Prasanna		93-NC-191	ROSENSTEIN	
				93-NA-202	JONES	
	Arce	Gonzalo	R	93-NE-284	PONRENKE	
	Kolodzey	James		93-NA-099	JONES	
	Santosa	Fadil		93-NE-314	WEINSTOCK	
	Carpenter	Steve	H	93-NA-200	JONES	
	Coosbe	Robert	D	93-NE-312	PONRENKE	
	Abasschian	Reza		93-NA-206	JONES	
	Adair	James	H	93-NA-207	JONES	
	Ebrahim	Fereshteh		93-NC-093	BERMAN	
	Hallosay	Paul		93-NC-106	A	ROSENSTEIN
	Hench	Larry	L	93-NC-225	PECHENIK	
	Simeons	Joseph	H	93-NC-225	ROSENSTEIN	
	Duncan	Michael	A	93-NC-235	PECHENIK	
	Schaefer III	Henry	F	93-NC-243	ERSTFELD	
	Chu	C		93-NC-251	ERSTFELD	
	Hussain	Fazle		93-NC-223	BERMAN	
				93-NC-274	BURGRAFF	
				93-NC-216	WEINSTOCK	
				93-NE-245	NACHMAN	

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Jniv of Illinois	Ravi-Chandar	K.		93-NA-097	JONES	JONES
	White	K.		93-NA-136	JONES	JONES
	Aggarwal	Krishnaswamy		93-NA-214	JONES	JONES
	Asirouché	Kenneth		93-NA-094	A	JONES
	Aref	Suresh		93-NA-113	A	TISHKOFF
	dotsis	Farid		93-NA-133	WU	
	Cettinkunt	Hassan		93-NA-147	A	MICHAEL
	Chudnovsky	John		93-NA-107	A	JONES
	Dlett	Sabri		93-NA-218	WU	
	Jenkins	Alexander		93-NA-110	JONES	
	Jonas	Dana	D	93-NC-128	BERRAN	
	Kriven	Kenneth		93-NE-260	A	SMITH
	Larson	Jiri		93-NC-253	ERSTFIELD	
	Poulikakos	Waltraud		93-NC-242	PECHENIK	
	Sahinidis	Richard	A	93-NC-191	HEDBERG	
	Dayman	Dinos	V	93-NA-075	BIRKAN	
	Wieckowski	Nikolaos		93-NM-183	GLASSMAN	
	Wilkins	C. Marvin		93-NC-109	PECHENIK	
	Wolfson	Andrzej	C	93-NC-094	WILKES	
	Chen	David		93-NM-232	WAKSMAN	
	Alvarez	Ouri		93-NM-244	SUDDARTH	
	Buttars, Jr.	Chao-Nien		93-NM-136	NACHMAN	
	Subbaswamy	Pedro	J	93-NL-137	KOZUMBO	
	Adossaitis	James	J	93-NL-163		
	Armstrong	Kumble	R	93-NE-243	POHRENKE	
	Bernstein	Raymond	A	93-NM-222	JACOBS	
	Grahamstein	R.		93-NC-166	BERMAN	
	Haddocks	Arriel		93-NM-218	SJOGREN	
	McIlrath	Devarajan	L	93-NE-282	BARKER	
	Rosenfeld	Victor		93-NM-118	A	NACHMAN
	Thirumalai	John	H	93-NC-349	A	NACHMAN
	Finin	Thomas	J	93-NC-255	SJOGREN	
	Calabrese	Arriel		93-NC-155	BURGRAF	
	Chany	Devarajan		93-NM-105	A	WAKSMAN
	Cooney	Timothy		93-NL-120	A	KOZUMBO
	Ganz	Edward		93-NA-217	LEWIS	
	Karasz	Thomas	S	93-NL-134	KOZUMBO	
	Paikowsky	Ching	J	93-NM-243	SUDDARTH	
		Joseph		93-NC-110	LEE	
		Aura		93-NA-069	LEWIS	
		Frank	E	93-NA-219	LEWIS	
		Samuel	G	93-NM-271	JACOBS	
		Dennis	S	93-NM-095	A	GLASSMAN
		Debashish		93-NC-104	A	ROSENSTEIN
		Dutta		93-NL-187	A	STOBIE
		Gibala		93-NA-072	A	LENTS
		Gilchrist		93-NM-093	A	JACOBS
		Myrcle		93-NA-185	S	LEWIS
		Roe				
		Philip				
		Milagros				
		Siemens				

Jniv of Massachusetts at Lowell

Jniv of Maryland, Baltimore County

Jniv of Massachusetts

Jniv of Michigan

INSTITUTION	LAST NAME	INVESTIGATOR FIRST NAME	MIDDLE	PROPOSAL	STATUS	PN NAME
Jniv of Minnesota	Volakis	John	L	93-NC-192	HEDBERG	
	Winfel	Herbert	G	93-NH-277	NACHMAN	
	Basak	Subhash	C	93-NE-304	CRAIG	
	Bates	Frank	S	93-NL-118	KOZUMBO	
	Cohen	Phillip	T	93-NC-237	LEE	
Jniv of Mississippi	Goldman	Allen	M	93-NE-291	PONRENKE	
	Rosen	J.		93-NE-305	WEINSTOCK	
	Fannenbaum	Allen	B	93-NA-195	GLASSMAN	
	Wackett	Lawrence		93-NA-201	JACOBS	
Jniv of Missouri	Sinha	Sumon	P	93-NL-110	KOZUMBO	
	Basu	Asit	K	93-NA-086	FANT	
	Defazio	Brian	P	93-NA-266	SJOGREN	
Jniv of Nebraska	Dubroff	Richard	E	93-NA-209	NACHMAN	
	McMillin	Bruce	R	93-NA-211	NACHMAN	
	Mossman	Deborah	J	93-NA-160	JONES	
Jniv of Nevada	White	Dan	C	93-NL-155	SUDDARTH	
	Bhattacharya	Prabir	J	93-NL-104	STOBIE	
Jniv of New Mexico	Miller	Glenn	J	93-NC-227	SJOGREN	
	Malloy	Kevin	J	93-NC-182	HEDBERG	
	Ross	Timothy	J	93-NE-344	SCHLOSSBER	
Jniv of North Carolina	Schreyer	Howard	J	93-NA-191	JONES	
	Truscan	C Randall	J	93-NA-108	MCMICHAEL	
	Dai	Xingde	J	93-NA-102	SJOGREN	
Jniv of North Texas	Figotin	Alexander	J	93-NA-154	NACHMAN	
	Klassler	Fouad	J	93-NA-294	CRAIG	
Jniv of Notre Dame	Kelber	Jeffry	A	93-NA-201	JONES	
	Saleh	Farida	A	93-NA-177	LENTS	
	Suspus	John	A	93-NL-139	KOZUMBO	
Jniv of Oregon	Perod	Wolfgang	A	93-NE-307	PONRENKE	
	Ginsberg	Mathew	L	93-NC-254	WAKSHAN	
Jniv of Pennsylvania	Oailey	William	A	93-NC-252	BERMAN	
	Dailay, III	William	A	93-NC-221	BERMAN	
Jniv of Pittsburgh	Carito	Anthony	A	93-NC-212	LEE	
	Scherer	Norbert	F	93-NC-146	BERMAN	
Jniv of Rhode Island	Zenios	Stavros	A	93-NA-200	GLASSMAN	
	Asher	Sanford	A	93-NC-210	ERSTFELD	
	Beratan	David	A	93-NC-256	LEE	
	Choyke	Wolfgang	A	93-NE-301	PONRENKE	
	Coasson	Rob	A	93-NC-252	ROSENSTEIN	
	Pratt	David	A	93-NC-262	SCHLOSSBER	
	Yates, Jr.	John	A	93-NE-342	ERSTFELD	
	Kubaresan	Radas	A	93-NC-071		
	Shukla	Arun	A	93-NC-238		
			T	93-NA-079		
			T	93-NA-220		

INSTITUTION INDEX (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Jniv of Rochester	Hukkael	Shaul		93-NC-218	BURGGRAF	
Jniv of Southern California	Sobolewski	Roman		93-NE-310	WEINSTOCK	
	Bardet	Jean-Pierre	J P	93-NA-161	LEWIS	
	Dalton	Larry	R	93-NA-223	LEWIS	
	Heilwarth	Robert		93-NC-241	LEE	
	Jenkins	Keith		93-NE-339	SCHLOSSBER	
	Koel	Bruce	E	93-NE-306	CRAIG	
	McCurdy	Alan	H	93-NC-150	ERSTFIELD	
	Huntz	E Phillip		93-NE-283	BARKER	
	Rosen	I. Gary		93-NA-105	SAKELL	
	Safonov	Michael	G	93-NM-234	JACOBS	
	Sassis	Charles	G	93-NL-102	A	DICKINSON
	Fleising	James	T	93-NL-199	KOJUMBO	
	Ghosh	Mriganka	N	93-NA-179	LEWIS	
	Memantov	Gleb		93-NC-273	WILKES	
	Yakilli	Ahmad	D	93-NA-224	SAKELL	
Jniv of Tennessee	Eisenbaumer	Ronald	L	93-NE-320	WEINSTOCK	
Jniv of Texas	Heelis	Roderick	A	93-NL-171	STOBIE	
	Kuang	Oin-Lee		93-NE-297	POMRENKE	
	Ling	Hao		93-NM-282	MACHRAN	
	Porter	Bruce	V	93-NM-226	WAHMAN	
	Powers	Edward	J	93-NE-264	WITT	
	Szebehely	Victor	H	93-NE-265	SMITH	
	Woodson	H.		93-NA-169	JONES	
	de Lozanne	Alex		93-NE-255	WITT	
	Byrne	John	H	93-NE-318	A	WEINSTOCK
	Trieff	Norman	H	93-NL-090	A	HADDAD
	Keller	G- Randy		93-NC-198	A	HEDEBORG
	Armentrout	Peter	B	93-NL-157	DICKINSON	
	Johnston	William	A	93-NC-257	BERMAN	
	Liou	K. N.		93-NL-182	TANGNEY	
	Simons	Jack		93-NC-149	STOBIE	
	Night	Charles	A	93-NC-132	BURGGRAF	
	Fuhr	Peter	L	93-NC-127	BERMAN	
	Horgan	Cornelius	O	93-NA-198	JONES	
	Menaker	Michael		93-NM-260	MACHRAN	
	Richards	Mercedes	T	93-NL-167	HADDAD	
	Tome	Elias		93-NL-185	RADDOSKI	
	Ganerjee	Sunirmal		93-NE-289	CRAIG	
Jniv of Vermont				93-NA-082	LEWIS	
Jniv of Virginia				93-NA-221	WITSHOFF	
Jniv of Washington				93-NA-215	A	JACOBS
	Bruckner	Adam		93-NC-206	ERSTFIELD	
	Eberhardt	Scott		93-NC-139	KOJUMBO	
	Engel	Thomas		93-NC-117	FANT	
	Kavannagh	Terrance	J	93-MA-090	FANT	
	Kurosaka	Mitsuru		93-NA-230		

INSTITUTION CODE: C-4
 A1: FORCE PFILE = FORTRESS RESEARCH
 STATUS = 010 = ACCEPTED, 010 = DECLINED, 010 = WITHDRAWN

INSTITUTION	FIRST NAME	MIDDLE	LAST NAME	PROPOSAL	STATUS	PW NAME
University of California at Berkeley	Innaret		HEDBERG	J3-NC-227		
University of California at Berkeley	Le, David		KOZUMBO	J3-NL-133		
University of California at Berkeley	Levina		TANGNEY	J3-NL-097		
University of California at Berkeley	Peter		BERMAN	J3-NC-202		
University of California at Berkeley	Richard		KOZUMBO	J3-NL-135		
University of California at Berkeley	Rajeev		SJOGREN	J3-NM-144		
University of California at Berkeley	John		BARKER	J3-NE-274		
University of California at Berkeley	Joe		JACOBS	J3-NA-212		
University of California at Berkeley	Paul		LEWIS	J3-NA-091		
University of California at Berkeley	Paul		LARSTFIELD	J3-VA-222		
University of California at Berkeley	Paul		KELLEY	J3-NC-170		
University of California at Berkeley	Paul		JONES	J3-NE-268		
University of California at Berkeley	Paul		GLASSMAN	J3-NA-213		
University of California at Berkeley	Paul			J3-NM-241		
University of California at Berkeley	Paul			J3-NE-273		
University of California at Berkeley	Paul		BARKER	J3-NA-213		
University of California at Berkeley	Paul		JACOBS	J3-NA-178		
University of California at Berkeley	Paul		LEWIS	J3-NL-160		
University of California at Berkeley	Patricia		KOZUMBO	J3-NL-131		
University of California at Berkeley	Patrick		HEDBERG	J3-NC-193		
University of California at Berkeley	Jeffrey		MAKSMAN	J3-NM-245		
University of California at Berkeley	Stanley		JONES	J3-NA-092		
University of California at Berkeley	Son		SUDARTH	J3-NA-133		
University of California at Berkeley	Donald		KOZUMBO	J3-NL-162		
University of California at Berkeley	Donald		KOZUMBO	J3-NL-132		
University of California at Berkeley	Donald		KOZUMBO	J3-NL-143		
University of California at Berkeley	Donald		HEDBERG	J3-NC-223		
University of California at Berkeley	Donald		SJOGREN	J3-NM-099		
University of California at Berkeley	Donald		LEWIS	J3-NA-182		
University of California at Berkeley	Donald		WEINSTOCK	J3-NE-309		
University of California at Berkeley	Donald		LEWIS	J3-NA-196		
University of California at Berkeley	Donald		JONES	J3-NA-139		
University of California at Berkeley	Donald		WEINSTOCK	J3-NE-323		
University of California at Berkeley	Donald		LEWIS	J3-NA-142		
University of California at Berkeley	Donald		KOZUMBO	J3-NL-114		
University of California at Berkeley	Donald		KOZUMBO	J3-NL-133		
University of California at Berkeley	Doris		JACOBS	J3-NC-274		
University of California at Berkeley	Doris		HU	J3-NA-123		
University of California at Berkeley	Doris		JONES	J3-NA-139		
University of California at Berkeley	Edith		JACOBS	J3-NM-150		
University of California at Berkeley	Edith		HU	J3-NA-117		
University of California at Berkeley	Edith		FANT	J3-NA-236		
University of California at Berkeley	Edith		JACOBS	J3-NC-237		
University of California at Berkeley	Edith		JACOBS	J3-NM-267		
University of California at Berkeley	Edith		JACOBS	J3-NM-173		
University of California at Berkeley	Edith		HU	J3-NA-083	A	
University of California at Berkeley	Edith		GLASSMAN	J3-NM-193		
University of California at Berkeley	Edith		KOZUMBO	J3-NL-113		

PART 2

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT C 1 JAN 93 - 31 MAR 93
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 1

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE		
		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	START DATE TOT ANT
AERONAUTICAL LABS Air Force Wright Aeronautical Labs	Roger Kimmel	N 02 04/01/93 \$30,000	A SAKELL 93-NA-058	\$30,000 17/05/93 \$30,000
(MUR) MATERIALS DEGRADATION AND FATIGUE IN AEROSPACE STRUCTURES		N 48 06/01/93 \$3,160,000	A JONES 93-NA-059	\$790,000 15/04/93 \$3,160,000
Purdue University	Grandt, Jr Alten	N 48 06/01/93 \$2,000,000	A JONES 93-NA-060	\$500,000 15/04/93 \$2,000,000
(MUR) CHARACTERIZATION OF MATERIALS DEGRADATION DUE TO CORROSION AND FATIGUE IN AEROSPACE STRUCTURES	Jain Mal	N 48 06/01/93 \$2,000,000	A JONES 93-NA-060	\$500,000 15/04/93 \$2,000,000
Princeton University	Ajit	R 12 08/01/93 \$206,690	A FISHKOFF 93-NA-061	\$206,690 01/09/93 \$206,690
FUNDING FOR SEVEN AFRAFT STUDENT TRAINEES FOR ACADEMIC YEAR 1993-94	C	N 48 11/01/93 \$933,412	A JONES 93-NA-062	\$233,353 15/04/93 \$933,412
(MUR) MATERIALS DEGRADATION AND FATIGUE IN AEROSPACE STRUCTURES	Achenbach Jan	N 24 14/01/93 \$387,234	A JONES 93-NA-063	\$387,234 15/04/93 \$387,234
Mechanics of Wide-Spread Fatigue Damage & Life-Enhancement Methodologies for Aging Aerospace Structures	Atturi Georgia Tech Research Corporation	N 24 14/01/93 \$131,433	A BIRKAN 93-NA-064	\$131,433 15/06/93 \$131,433
PAASERT-92) SWIRL EFFECTS ON COAXIAL INJECTOR ATOMIZATION	Santoro Robert	N 24 14/01/93 \$127,238	A BIRKAN 93-NA-064	\$127,238 15/06/93 \$127,238
PAASERT-92) NEW APPROACHES FOR MODELING LIQUID JET ATOMIZATION	Heister Stephen	N 24 14/01/93 \$124,244	A BIRKAN 93-NA-065	\$124,244 15/06/93 \$124,244
PAASERT-92) EXPERIMENTAL INVESTIGATION OF STRAIN LOCALIZATION IN SAND	Ladd Paul	N 34 14/01/93 \$124,244	LEWIS 93-NA-066	\$124,244 15/06/93 \$124,244
Purdue University				

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 2

TITLE TITLE (CONT.) INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
			N 24 14/01/93 \$273,994	BIRKAN 93-NA-067
(AASERT-92) ADVANCED ELECTRIC PROPULSION STUDIES Massachusetts Institute of Technology				
Martinez-Sanchez	Manuel			
(AASERT-92) LIQUID ROCKET MOTOR COMBUSTION STABILITY USING DAXIAL INJECTORS Pennsylvania State University	Nicci			
	Michael			
(AASERT-92) SHEAR STRENGTH OF GRANULAR MATERIAL UTILIZING ADVANCED PHOTODELATIC MEASUREMENT TECHNIQUES Univ of Massachusetts at Lowell	Paikowsky			
	Samuel			
(AASERT-92) NON-INVASIVE, PHOTOCHROMIC-TRACER STUDIES OF PARTICULATE SUSPENSIONS AND GRANULAR MEDIA Univ of California, San Diego	Soddard			
	Joe			
(AASERT-92) ACOUSTIC-FLOW INTERACTIONS IN SOLID ROCKET MOTORS Univ of Colorado	Mahalingam			
	Snankar			
(AASERT-92) EXPERIMENTAL MICROMECHANICS OF GEOMATERIALS THROUGH COMPUTER VISUALIZATION Univ of Michigan	Hrycik			
	Roman			
(AASERT-92) THEORETICAL STUDIES OF GRANULAR MATERIALS FLOW Lehigh University	Hong			
	Daniel			
(AASERT-92) TWO PHASE MECHANICS OF FLOW DIFFUSION AND DEFORMATION IN PERO-ELASTIC MEDIA Massachusetts Institute of Technology	Mei			
	Chiang			
(AASERT-92) CHARACTERIZATION OF HIGH-SPEED IMPINGING JET ATOMIZATION IN A HIGH PRESSURE Univ of Illinois	Poulikakos			
	Dimas			

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 3

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
		N	36	14/01/93 \$133,749		
(AASERT-92) STRAIN - RATE SENSITIVE CONSTITUTIVE RELATION FOR CONCRETE Auburn University	Joseph Tedesco	N	36	LEWIS 93-NA-076		
(AASERT-92) AN AUGMENTATION TO THE AIR FORCE SUPPORTING STANFORD UNIVERSITY	Jack Dvorkin	N	36	LEWIS 93-NA-077		
(AASERT-92) FIBER-REINFORCED GRANULAR COMPOSITE: YIELDING AND FAILURE Johns Hopkins University	Radoslaw Michalowski	N	36	LEWIS 93-NA-078		
(AASERT-92) ROLE OF DAMAGE AND DAMAGE GROWTH ON DYNAMIC LOAD TRANSFER IN PARTICULATE MEDIA Univ of Rhode Island	Shukla Arun	N	36	LEWIS 93-NA-079		
(AASERT-92) AUGMENTATION FOR BASIC RESEARCH ON VAPOR TRANSPORT IN SOIL Cornell University	Leonard Lion	N	36	LEWIS 93-NA-080		
(AASERT-92) DISTINCT ELEMENT SIMULATION AND CONSTITUTIVE MODELING OF PARTICULATE MEDIA-STRUCTURE INTERFACE Univ of Wisconsin	Edil Tuncer	N	36	LEWIS 93-NA-081		
(AASERT) INTERACTIVE ANALYSIS OF SOIL-STRUCTURE INTERACTION Univ of Washington	Suniraj Banerjea	N	36	LEWIS 93-NA-082		
WORKSHOP ON MULTIPLE SITE DAMAGE IN AGING AIRCRAFT Warren Robins Air Logistics Center	Register Daniel	N	06	A MU 93-NA-083		\$10,000
(AASERT-92) ADAPTIVE CONTROL FOR DIAGNOSIS OF TRANSIENT VORTEX INTERACTIONS Georgia Institute of Tech	Kumarath Narayanan	N	36	A FANT 93-NA-084		\$68,874
						01/06/93
						\$10,000
						\$68,874
						15/02/93
						\$10,000
						\$68,874
						01/06/93
						\$68,874

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT ANT
(AASERT-92) DEVELOPMENT OF LES METHODOLOGY FOR THE ANALYSIS OF HIGH-REYNOLDS NUMBER 2-D AND 3-D DYNAMIC STALL PHENOMENON Jain & Cincinnati	Karti	N 36 21/01/93 \$122,088	A FANT 93-NA-085	\$122,088 01/06/93 \$122,088
(AASERT-92) EDUCATING STUDENTS IN THE DEVELOPMENT OF EFFECTIVE FLOW SEPARATION CONTROL TECHNOLOGY FOR USE IN COMPLEX FLOWS Jain of Mississippi	Suson	N 36 21/01/93 \$117,751	FANT 93-NA-086	
(AASERT-92) EXPERIMENTAL RESEARCH ON THREE-DIMENSIONAL UNSTEADY FLOWS FIELDS	Rasaprian	N 36 21/01/93 \$110,251	FANT 93-NA-087	
(AASERT-92) THE EFFECT OF A FLEXIBLE FIBER COVER ON CONTROLLING BOUNDARY LAYER FLOW AND HEAT TRANSFER Washington State University	Adrian	N 36 21/01/93 \$96,422	FANT 93-NA-088	
(AASERT-92) INTERACTIONS AND CONTROL FOR HEAT TRANSFER IN TURBULENT END-WALL BOUNDARY LAYERS Johns Hopkins University	Smith	N 36 21/01/93 \$120,000	FANT 93-NA-089	\$120,000 01/06/93 \$120,000
(AASERT-92) SUPPLEMENTAL RESEARCH RELATED TO JET ENGINE COOLING Jain of Washington	Kurosaka	N 36 21/01/93 \$124,358	FANT 93-NA-090	
(AASERT-92) NUMERICAL STUDY OF THREE-DIMENSIONAL SHOCK WAVE-FORTEX INTERACTION IN A SUPERSONIC STREAM Polytechnic Univ. - Weber Research Inst.	Iraj	N 36 21/01/93 \$105,170	FANT 93-NA-091	
(AASERT-92) GRADUATE STUDENT SUPPORT FOR ANALYTICAL MODELING OF TIGHT RATE PROCESSES University of Alabama	Jones	N 24 22/01/93 \$158,715	JONES 93-NA-092	
(AASERT-92) INVESTIGATION OF DAMAGE MECHANISMS IN HIGH TEMPERATURE CERAMIC MATRIX COMPOSITES Troxel University	Albert	N 24 22/01/93 \$102,538	JONES 93-NA-093	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

TITLE (CONT.)		INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM PROPOSAL #	INITIATE START DATE
(AASERT-92) FRACTURE PROCESS ZONE STUDIES OF STRENGTH CRITICAL CLAWS IN STRUCTURAL CERAMICS	Jnlv of Houston	White Kenneth	N 24 22/01/93 \$159,071	A JONES 93-NA-094	\$120,000 01/06/93 \$120,000
(AASERT-92) COMPRESSION BEHAVIOR OF MMC AT ELEVATED TEMPERATURE	Ohio State University	Sierakowski Robert	N 24 22/01/93 \$367,700	JONES 93-NA-095	
(AASERT-92) INTERFACIAL PROPERTIES OF HIGH TEMPERATURE COMPOSITES	Northeastern University	Koop Leon	N 24 22/01/93 \$383,565	JONES 93-NA-096	
(AASERT-92) MIXED-MODE FRACTURE OF SOLID PROPELLANTS	Jnlv of Houston	Ravi-Chandar K.	N 24 22/01/93 \$96,587	JONES 93-NA-097	
(AASERT-92) PROBABILISTIC OPTIMAL GROUNDWATER REMEDIATION PLANNING	Duke University	Medina Miguel	N 36 22/01/93 \$217,604	LEWIS 93-NA-098	
(AASERT-92) NONDESTRUCTIVE METHODS FOR EVALUATING DAMAGE EVOLUTION AND MATERIALS BEHAVIOR IN METAL MATRIX COMPOSITES	Jnlv of Dayton	Prasanna Karpur	N 24 22/01/93 \$167,056	JONES 93-NA-099	
(AASERT-92) MEMS--BASED DIAGNOSTICS FOR TURBULENT SHEAR FLOW	Georgia Institute of Tech	Giezer Ari	N 36 22/01/93 \$121,716	MCMICHAEL 93-NA-100	
(AASERT-92) MICROMACHINED SENSORS FOR FLUID FLOWS	Massachusetts Institute of Technology	Greuer Kenneth	N 36 25/01/93 \$168,153	MCMICHAEL 93-NA-101	
(AASERT-92) RESEARCH TRAINING IN LIGHT TRANSMISSION THROUGH TURBULENT SHEAR FLOWS	Jnlv of New Mexico	Trutan C Randall	N 36 25/01/93 \$125,557	MCMICHAEL 93-NA-102	

PAGE 5

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 6

TITLE	TYPE/MONTHS	STATUS	INITIATE
TITLE (CONT.)	RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT
(AASERT-92) DEVELOPING NEW GENERATION OF MODELS FOR TURBULENT FLOWS Yale University	N 36 25/01/93 \$138,189 01/06/93 \$138,189	A MICHAEL 93-NA-103	
(AASERT-92) BLOCK INTERFACE TREATMENT FOR FLOW SIMULATION INVOLVING COMPOSITE GRIDS Mississippi State University	N 36 25/01/93 \$100,905	SAKELL 93-NA-104	
(AASERT-92) NON-EQUILIBRIUM FLOW EXPERIMENTS IN THE USC IODINE FLOW FACILITY Univ of Southern California	N 36 25/01/93 \$152,957	SAKELL 93-NA-105	
(AASERT-92) A STUDY OF PERTURBED SUPERSONIC TURBULENT BOUNDARY LAYERS USING REAL-TIME Ohio State University	N 36 25/01/93 \$111,989	A SAKELL 93-NA-106	\$111,989 01/06/93 \$111,989
(AASERT-92-) FRACTURE CHARACTERISTICS OF FIBER REINFORCED COMPOSITES Univ of Illinois	N 36 25/01/93 \$75,000	JONES 93-NA-107	\$75,000 01/06/93 \$75,000
(AASERT-92) OPTIMIZED SHAPES & LOCATIONS OF INCLUSIONS IN QUASI-BRITTLE MATERIALS Univ of New Mexico	N 36 25/01/93 \$159,323	JONES 93-NA-108	
(AASERT-92) TOUCHING OF BRITTLE MATERIALS Univ of Illinois	N 36 25/01/93 \$79,658	JONES 93-NA-109	
(AASERT-92) STRUCTURAL INTEGRITY OF ACTING OF AEROSPACE STRUCTURES AND REPAIRS Georgia Institute of Tech	N 36 25/01/93 \$150,000	A JONES 93-NA-110	\$150,000 01/06/93 \$150,000
(AASERT-92) DEVELOPMENT OF NONLINEAR PIEZOELECTRIC CONSTITUTIVE MODELS Purdue University	N 36 25/01/93 \$74,638	JONES 93-NA-111	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 7

TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	INITIATE		
			TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	START DATE TOT ART
(AASERT-92) GRADUATE STUDENT SUPPORT FOR TURBULENT COMBUSTION MODELING	Pode Cornell University	Stephen	N 36 26/01/93 \$143,554	A TISHKOFF 93-NA-112	\$100,000 01/06/93 \$100,000
(AASERT-92) SPRAY VAPORIZATION AND COMBUSTION IN LARGE VORTICAL STRUCTURES	Aygarwal Univ of Illinois	Suresh	N 36 26/01/93 \$105,226	A TISHKOFF 93-NA-113	\$105,226 01/06/93 \$105,226
(AASERT-92) OF TURBULENT COMBUSTION IN HIGH-SPEED FLOWS	Farman Univ of California, San Diego	Farman	N 36 26/01/93 \$91,782	A TISHKOFF 93-NA-116	\$91,782 01/06/93 \$91,782
(AASERT-92) NONLINEAR AERODELATICITY OF COMPOSITE WINGS	Ali Virginia Polytechnic Inst & State Univ	Ali	N 36 26/01/93 \$161,712	MU 93-NA-117	\$100,000 10/06/93 \$100,000
(AASERT-92) RECURRENT TYPE NEURO-CONTROLLERS FOR MOTION CONTROL SYSTEMS WITH DISTRIBUTED FLEXIBILITY: STABILITY AND ROBUSTNESS ISS	Nayfeh Univ of Illinois	Nayfeh	N 36 26/01/93 \$78,119	MU 93-NA-118	
(AASERT-92) IDENTIFICATION AND OPTIMAL CONTROL ISSUES IN ADAPTIVE STRUCTURES	Ramanaidu Wright State University	Ramanaidu	N 36 26/01/93 \$103,390	MU 93-NA-119	
(ET772ST-92) DYNAMIC RESPONSE AND CONTROL OF EVOLUTIONARY STRUCTURES	Kurdila Texas A and M University	Kurdila	N 36 26/01/93 \$209,861	MU 93-NA-120	
(AASERT-92) RESEARCH TRAINING IN SPACECRAFT DYNAMICS, STABILITY AND CONTROL	Anthony Pennsylvania State University	Anthony	N 36 26/01/93 \$93,676	MU 93-NA-121	
(AASERT-92) MECHANICS OF NONLINEAR FLEXIBLE STRUCTURES	Junkins Texas A and M University	Junkins	N 36 26/01/93 \$209,861	MU 93-NA-122	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT AMT	
				AMOUNT	
(AASERT-92) SMART NONLINEAR MODAL CONTROL Virginia Polytechnic Inst & State Univ	Daniel Inman	N 36 27/01/93 \$135,981	WU 93-NA-123		
(AASERT-92) EXPERIMENTAL METHODS TO STUDY GLOBAL STABILITY AND MODAL INTERACTIONS IN STRUCTURES Cusumano Pennsylvania State University	Joseph Cusumano	N 36 27/01/93 \$167,486	WU 93-NA-124		
(AASERT-92) AEROELASTIC TURBULENCE AND HIGH-DIMENSIONAL CHAOS Jude University	Lawrence Virgini	N 36 27/01/93 \$148,827	WU 93-NA-125	\$99,981 10/06/93 \$99,981	
(NONLINEAR LASER DIAGNOSTICS FOR COMBUSTION AND PLASMA PROCESSES SRI International	Faris Gregory	N 36 27/01/93 \$569,980	TRSHKOFF 93-NA-126	\$228,300 01/06/93 \$341,000	
COMBINED THEORETICAL & EXPERIMENTAL STUDY OF PHENOMENA RELATED TO LIMIT CYCLE OSCILLATIONS Lehigh University	J David Walker	N 36 28/01/93 \$341,000	JONES 93-NA-127		
TRANSonic FLOW SEPARATION IN CLOSED AND CURVED CHANNELS Czechoslovakia Academy of Sciences	Dvorak Rudolf	N 12 28/01/93 \$11,400	FANT 93-NA-128	\$11,400 01/05/93 \$11,400	
(CSBIR-93) MODELING THE PERFORMANCE AND INTEGRITY OF SHAPE MEMORY ALLOY REINFORCED COMPOSITES Materials Sciences Corp	Sailendra Chatterjee, Ph.D.	N 06 29/01/93 \$49,983	JONES 93-NA-129	\$49,986 01/07/93 \$49,986	
(CSBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES Berkeley Applied Science & Engr.	Panahandeh	N			
(CSBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES CSA Engineering, Inc.	Warren Gibson	N 06 29/01/93 \$64,692	JONES 93-NA-131	\$64,692 01/07/93 \$64,692	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE	
		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
(SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES MSNW Inc.	Sullivan Brian	N 06 29/01/93 \$59,521	A JONES 93-NA-132 \$59,521
DYNAMIC ANALYSIS OF TOPOLOGICAL CHANGES IN MECHANICAL SYSTEMS WITH UNINTERMITTENT MODE OF OPERATION JHU of Illinois	Mirouche Farid	N 36 29/01/93 \$256,589	MU JONES 93-NA-133
MIXED-MODE FRACTURE OF SOLID PROPELLANTS JHU of Houston	Ravi-Chandar K	N 36 29/01/93 \$220,467	JONES 93-NA-134
(SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURE Structural Materials Research	Chan Wen	N 6 04/02/93 \$49,964	JONES 93-NA-135
EFFECT OF PERIODIC UNSTEADY FLOW ON TURBINE CASCADE AERODYNAMICS Texas A and M University	Schobeiri T	N 36 09/02/93 \$232,192	FANT 93-NA-136
RECEPTIVITY IN BOUNDARY-LAYER TRANSITION TO TURBULENCE Arizona State University	Saric William	N 31 09/02/93 \$253,284	MCMICHAEL 93-NA-137
LIMIT CYCLE OSCILLATIONS (LCOS) AND NONLINEAR AEROELASTIC WING RESPONSE Duke University	Dowell Earl	N 36 09/02/93 \$217,169	A JONES 93-NA-138 \$217,169
A NEW APPROACH TO THE COMBINED PROBLEM OF DYNAMICS AND AEROELASTICITY OF SUPERMANEUVERABLE AIRCRAFT Virginia Polytechnic Inst & State Univ Meirovitch Leonardi		N 35 09/02/93 \$311,033	JONES 93-NA-139 \$217,169
CONSTITUTIVE EQUATION FOR CONCRETE USING STRAIN-SPACE PLASTICITY New Jersey Institute of Technology Hsu C T Thomas		N 24 08/02/93 \$96,353	JONES 93-NA-140 \$96,353

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 10

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		AMOUNT	MONTHS	RECEIVED		
TWO PHASE MECHANICS OF FLUID, DIFFUSION AND DEFORMATION OF PORO-ELASTIC MEDIA	Wei	\$219,920	36	09/02/93	LEWIS	N 06 36 93-NA-141
Massachusetts Institute of Technology	Chiang C					
EXAMINATION OF THE VALIDITY OF STEADY STATE SHEAR STRENGTH DETERMINATION	Thomas	\$36,756	24	03/02/93	LEWIS	N 06 24 93-NA-142
Virginia Polytechnic Inst & State Univ	Brandon					
DAMPING OF VIBRATIONS IN PLATES AND SEAMS THROUGH THE AMPLIFICATION OF REFLECTIONS	Jacob	\$31,795	12	11/02/93	MU	N 06 12 93-NA-143
North Dakota State University	Slower					
CONTROLLER DESIGN FOR UNSTABLE AEROELASTIC SYSTEMS	Hiday	\$54,999	A	11/02/93	MU	N 06 A 15/06/93 93-NA-144
Ohio State University						
VALIDATED AERO-OPTIC FACILITY PROGRAM	Holden	\$497,647	36	11/02/93	SAREK	R 06 36 \$497,647 / / 93-NA-145
Calspan-U3 Research Center	Hike					
PROVIDE COMPUTER SUPPORT ON AFWL CRAY2	Magers	\$10,000	A	11/02/93	SAKELL	N 06 A \$10,000 93-NA-146
Air Force Weapons Lab	Mary Ann					
INTEGRABLE AND CHAOTIC MOTION OF A SOLID DOOR THROUGH A FLUID	Hassan	\$135,000	06	11/02/93	MCMICHAEL	N 06 06 93-NA-147
Univ of Illinois	Ref					
(SBIR-93) THE EFFECTS OF EMBEDDED ACTUATORS AND SENSORS ON THE STRUCTURAL INTEGRITY AND DURABILITY OF INTELLIGENT STRUCTURES Advanced Composites Laboratory	Joseph	\$56,0218	06	16/02/93	JONES	N 06 06 93-NA-148
General Science & Technology Inc.	Tanios	\$50,000				
(SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS	Vonein	\$50,000				
General Science & Technology Inc.						

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 11

TITLE TITLE (CONT.) INSTITUTION	INITIATE INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER & PROPOSAL #	INITIATE START DATE TO ANT
(SBIR-93) ANALYTICAL CHARACTERIZATION OF SENSOR/ACTUATOR EMBEDDED INTELLIGENT MATERIALS	Miller Mark	N 06 17/02/93 \$49,850	A JONES 93-NA-150	\$49,850 01/07/93 \$49,850
(SBIR-93) MODELLING OF ELECTROMECHANICAL BEHAVIOR IN SMART STRUCTURES	Sun, Ph.D. Wei	N 06 17/02/93 \$50,000	JONES 93-NA-151	
(SBIR-93) INTEGRATED INTELLIGENT STRUCTURES FOR SUPPRESSING STATIC AEROTHERMOELASTIC DEFORMATIONS AND FLUTTER OF PANELS	Li-Chuan Chu	N 06 17/02/93 \$50,000	A JONES 93-NA-152	\$50,000 01/07/93 \$50,000
(S9IR-93) MATHEMATICAL MODELS OF SHAPE MEMORY ALLOY ACTUATORS	Allaei Daryoush	N 06 17/02/93 \$69,424	JONES 93-NA-153	
RESEARCH FOR ADVANCED AIRCRAFT ENGINE STRUCTURES AT TEXAS A&M UNIVERSITY, 1992-93	Vance J	R 12 17/02/93 \$67,000	A JONES 93-NA-154	\$47,000 15/08/93 \$47,000
NASA AMES COMPUTER GRAPHICS SUPPORT FOR PARVIL MOIV	Rogallo Rogallo	N 08 18/02/93 \$40,000	A MCMICHAEL 93-NA-155	\$40,000 01/02/93 \$40,000
NASA AMES - Ames Research Center		N 08 19/02/93 \$15,000	A MCMICHAEL 93-NA-156	\$15,000 01/02/93 \$15,000
STEL ASSESSMENT OF JAPANESE R&D IN MICROELECTROMECHANICAL SYSTEMS.	Yeng Deborah	N 08 19/02/93 \$30,000	A MCMICHAEL 93-NA-157	\$30,000 15/02/93 \$30,000
PROVIDE COMPUTER SUPPORT ON AFLW CRAY 2 TO AFOSR CONTRACTOR	Mages Mary Ann	N 12 19/02/93 \$18,000	A MCMICHAEL 93-NA-158	\$18,000 01/10/92 \$18,000
Air Force Weapons Lab				

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 12

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE TOT AMT
TITLE (CONT'D.)	INVESTIGATOR	RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	
(SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES Science , Math & Engineering Inc	Burns	N 06 01/03/93 \$49,991	JONES 93-NA-159	\$42,378 01/07/93 \$556,622
DEVELOPMENT OF COMPUTATIONAL ELECTROMAGNETICS (CEM) FOR MULTIDISCIPLINARY INTEGRATION STUDIES	Shankar	N 36 02/03/93 \$556,822	SAKELL 93-NA-160	
SHEAR BANDING AND CRACK PROPAGATION IN SOILS	Gardet	N 36 03/03/93 \$239,896	LEWIS 93-NA-161	
SHEAR BANDING AND CRACK PROPAGATION IN SOILS	Sadda	N 36 03/03/93 \$547,883	LEWIS 93-NA-162	
Liquid HELIUM AS A TEST FLUID	Schwarz	N 28 08/03/93 \$185,921	MCKMICHAEL 93-NA-163	\$35,357 01/06/93 \$185,921
THREE-DIMENSIONAL CRACK GROWTH AND STABILITY	Keer	N 36 11/03/93 \$343,613	JONES 93-NA-164	
RACTURE AT AND NEAR INTERFACES UNDER PRESSURE	Krauss	N 48 11/03/93 \$155,013	JONES 93-NA-165	
TITANIUM ALUMINIDE COMPOSITES: BEHAVIOR OF THE INTERFACE AND THE LOCAL STATE STRESS	Kouris	N 36 11/03/93 \$269,169	JONES 93-NA-166	
THE FUNDAMENTALS OF THE INTERACTIONS BETWEEN TWO JETS LADDEN RESPECTIVELY WITH FUEL DROPS AND OXIDER DROPS	Bellan	N 36 12/03/93 \$612,500	BIRKAN 93-NA-167	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 13

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT ANT
TITLE (CONT.)		AMOUNT	PROPOSAL #			
RAY 2 SUPPORT FOR CHUNG/ALABAMA Air Force Weapons Lab	Mages Mary Ann	N 08 16/03/93 \$4,600	A SAKELL 93-NA-168		\$4,600 04/02/93	
JULIETTE DEEP SPACE ORBITS Univ of Texas	Szebehely Victor	N 36 17/03/93 \$60,000		JONES	93-NA-169	
THRUST VECTOR CONTROL OF RECTANGULAR JETS USING COUNTERFLOW Florida & University	Krothaballi Anjaneyulu	N 24 17/03/93 \$500,000		MCMICHAEL	93-NA-170	
SOLUTION OF MAXWELL'S EQUATIONS FOR AEROSPACE SYSTEMS Rockwell International, Science Center	Shankar V	N 36 17/03/93 \$600,097	D SAKELL	93-NA-171		
NUMERICAL STUDIES OF LOW-DENSITY TWO-DIMENSION HYPERSONIC FLOWS BY USING THE NAVIES-STROKES & BURNETT EQUATIONS WITH NONEQUILIBRIUM Univ of California, Los Angeles	Zhong Xiaolin	N 36 17/03/93 \$244,959		SAKELL	93-NA-172	
STOCHASTIC MODELING OF FIELD-SCALE DISPERSION OF POLLUTANTS New York University	Avellaneda Marco	N 36 19/03/93 \$565,554		LEWIS	93-NA-173	
SORPTION OF ORGANIC FUEL IN CLAYS: APPLICATION OF NEUTRON SCATTERING National Inst. of Standards & Technology	Manley Howard J M	N 36 19/03/93 \$395,000		LEWIS	93-NA-174	
OPTIMIZING THE PROPERTIES OF CATIONIC SURFACTANT MODIFIED SOILS FOR IN-SITU REMEDIATION Michigan State University	Soyd Stephen	N 36 19/03/93 \$362,512		LEWIS	93-NA-175	
WAVEFRONT PROPAGATION IN RANDOM MEDIA Michigan State University	Ostoja-Starzewski Martin	N 36 19/03/93 \$205,772		LEWIS	93-NA-176	

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 14

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	INITIATE START DATE TOT AMT
ENVIRONMENTAL & THERMAL REACTIONS OF POLYFLUORINATED POLYETHERS BY INVERSE GAS CHROMATOGRAPHY & PYROLYSIS MASS SPECT	Salem Univ of North Texas	N 36 19/03/93 \$275,557	LEWIS 93-NA-177	
ABSORPTION OF HAZARDOUS ORGANIC COMPOUNDS BY MINERAL SURFACES	Carroll Univ of Wyoming	N 36 19/03/93 \$732,355	LEWIS 93-NA-178	
BEHAVIOR OF VOLATILE ORGANIC COMPOUNDS IN THE SUBSURFACE	Grosh Univ of Tennessee	N 36 19/03/93 \$300,014	LEWIS 93-NA-179	
SOCIAL DECONTAMINATION BY EXCITATION OF ELECTROMAGNETIC WAVE	Fang Lehigh University	N 30 19/03/93 \$176,624	LEWIS 93-NA-180	
FLOW OF NONAQUEOUS FLUIDS IN PARTICULATE SYSTEM	Hong Lehigh University	N 36 19/03/93 \$358,080	LEWIS 93-NA-181	
STOCHASTIC ANALYSIS OF LARGE SCALE TWO-PHASE FLOW SYSTEMS	Jasgath Utah State University	N 30 19/03/93 \$249,664	LEWIS 93-NA-182	
INSTANTANEOUS FINGERED FLOW IN SOIL-WATER-AIR SYSTEMS: THEORETICAL PREDICTIONS AND EXPERIMENTAL VERIFICATION	Steenhuis Cornell University	N 36 19/03/93 \$600,000	LEWIS 93-NA-183	
THE TRANSPORT, SORPTION, AND DEGRADATION OF TETRACYCLOHEPTANE IN VARIOUS SATURATED SOIL	Butters Colorado State University	N 36 20/03/93 \$341,760	LEWIS 93-NA-184	
SORPTION/DESORPTION STUDIES AND SOIL INTERACTIONS OF SELECTED CHEMICALS	Greg Simmons Univ of Michigan	N 36 20/03/93 \$295,802	LEWIS 93-NA-185	

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	INITIATE PROPOSAL #		TOT AMT
				START DATE	PROPOSAL #	
PROCESSES AFFECTING VOLATILE TRANSPORT IN THE UNSATURATED SOIL 2 ONE Vanderbilt University	H Jeen	N 36 20/03/93 \$272,361	LEWIS 93-NA-186			
DISTRIBUTION OF LIQUID PHASE HYDROCARBONS IN LAYERED SOIL: ISOSTERIS IN CAPILLARY PRESSURE SATURATION RELATIONS Colorado State University	Donnra	N 24 20/03/93 \$135,843	LEWIS 93-NA-187			
FACTORS CONTROLLING THE MOVEMENT OF VOLATILE ORGANIC COMPOUNDS IN THE VADOSE ZONE Univ of Arizona	Mark	N 36 20/03/93 \$301,721	LEWIS 93-NA-188			
CURIP-FY93) GLOBAL IMAGING OF INHOMOGENEITIES Kansas State University	Alexander Paul	N 36 22/03/93 \$135,726	JONES 93-NA-189			
CURIP-FY93) CORROSION & FATIGUE OF ALUMINUM ALLOYS: CHEMISTRY, MICROMECHANICS AND RELIABILITY Lehigh University	Robert Wei	N 36 22/03/93 \$648,150	JONES 93-NA-190			
CURIP-FY93) PREDICTION AND NONDESTRUCTIVE EVALUATION OF CORROSION DAMAGE IN METALLIC MATERIALS Univ of New Mexico	Ross Timothy	N 36 22/03/93 \$674,359	JONES 93-NA-191			
CURIP-FY93) NONDESTRUCTIVE EVALUATION FOR DAMAGE BY VIBRATION MONITORING Univ of Akron	Lambros Rataygiotis	N 24 22/03/93 \$200,422	JONES 93-NA-192			
CURIP-FY93) NDE OF AGED AIRCRAFT STRUCTURES USING ACOUSTIC AND LASER BASED TECHNIQUES Auburn University	Raju P K	N 36 22/03/93 \$684,239	JONES 93-NA-193			
CURIP-FY93) DETECTION OF AIRCRAFT FAULT MECHANISMS USING STRESS WAVE ANALYSIS Florida International University	Cesar Levy	N 36 23/03/93 \$750,000	JONES 93-NA-194			

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

TITLE TITLE (CONC.)	INVESTIGATOR	INITIATE START DATE		
		TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	PROPOSAL #
INSTITUTION		RECEIVED AMOUNT	TOT AMT	
(URIP-FY93) THE APPLICATION OF MICROELECTRODES FOR DEVELOPMENT OF REMOTE SENSORS OF CORROSION IN COATED SUBSTRATES	Gordon Bieraden	N 36 23/03/93 \$310,116	JONES 93-NA-195	
North Dakota State University				
(URIP-FY93) DEVELOPMENTAL PROCESSES & NONDESTRUCTIVE EVALUATION OF CORROSION IN AIRCRAFT STRUCTURES	Lawrence Rehfield	N 36 23/03/93 \$450,741	JONES 93-NA-196	
Univ of California, Davis				
(URIP-FY93) NON-DESTRUCTIVE EVALUATION OF HIDDEN CORROSION IN COMPOSITES USING INTEGRATED X-RAY RADIOGRAPHY & COMPUTED TOMOGRAPH	Dilhan Kalyon	N 36 23/03/93 \$749,996	JONES 93-NA-197	
Stevens Institute of Technology				
(URIP-FY93) AIRCRAFT CORROSION MONITORING USING SURFACE ATTACHED 4D EMBEDDED SENSORS	Peter Fuhr	N 36 23/03/93 \$575,168	JONES 93-NA-198	
Univ of Vermont				
(URIP-FY93) FRETTING CORROSION IN AIRFRAME RIVETED AND PINNED CONNECTIONS	George Hahn	N 36 24/03/93 \$527,084	JONES 93-NA-199	
Pandorrbilt University				
(URIP-FY93) SYNTHETIC TOMOGRAPHIC IMAGING ARRAYS FOR NDE	Arcie Gonzalo	N 36 24/03/93 \$328,663	JONES 93-NA-200	
Univ of Delaware				
(URIP-FY93) COMBINED ELECTROCHEMICAL/ULTRA-HIGH VACUUM STUDIES OF CORROSION OF TITANIUM AND ALUMINUM ALLOYS	Jeffry Keller	N 36 24/03/93 \$492,405	JONES 93-NA-201	
Univ of North Texas				
(URIP-FY93) EXPERIMENTAL AND THEORETICAL ASPECTS OF CORROSION DETECTION AND PREVENTION	Moldayev Madych	N 36 24/03/93 \$707,391	JONES 93-NA-202	
Univ of Connecticut				
(URIP-FY93) SCANNING TUNNELING MICROSCOPY OF SURFACE REACTIONS	Steven Sibener	N 36 24/03/93 \$707,330	JONES 93-NA-203	
Univ of Chicago				

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 17

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT	
				AMOUNT	
CURIP-FY93) MONODESTRUCTIVE AND NONCONTACT EVALUATION OF CORROSION & FATIGUE BY LASER SPECKLE SENSOR (LSS) AND LASER MOIRE	Fu-Pen Chiang	N 36 24/03/93 \$599,367	JONES 93-NA-204		
State University of New York					
CURIP-FY93) THERMAL WAVE IMAGING FOR NDE OF HIDDEN CORROSION IN AIRCRAFT COMPONENTS	Thomas Jayne State University	N 36 24/03/93 \$365,656	JONES 93-NA-205		
	Robert				
CURIP-FY93) MONODESTRUCTIVE EVALUATION OF CORROSION-DAMAGED STRUCTURES	Santosa	N 36 24/03/93 \$749,989	JONES 93-NA-206		
	Fadi				
CURIP-FY93) A PROPOSAL TO INVESTIGATE ACOUSTIC RESONANCE SPECTROSCOPY FOR DETECTION OF CORROSION IN STRUCTURES & COMPONENTS	Steve Carpenter	N 36 24/03/93 \$386,841	JONES 93-NA-207		
CURIP-FY93) MONODESTRUCTIVE DETECTION AND CHARACTERIZATION OF CORROSION IN AIRCRAFT	Rose	N 36 24/03/93 \$717,500	JONES 93-NA-208		
Penn State Univ of Science and Tech					
TIME DEPENDENT BEHAVIOR OF POLYMER DERIVED CERAMIC MATRIX COMPOSITES	James Guesking	N 36 25/03/93 \$299,712	JONES 93-NA-209		
PSNNC Inc.	Kent				
CURIP-FY93) ROBOTIC MANIPULATION USING FUZZY LOGIC & NEURAL NETWORKS FOR APPLICATIONS IN NON-DESTRUCTIVE INSPECTION OF HIDDEN Prairie View A and M Res Arch Foundation	Wasjdi Houshang	N 36 25/03/93 \$660,173	JONES 93-NA-210		
CURIP-FY93) NONDESTRUCTIVE EVALUATION USING ACOUSTIC IMAGING AND DETECTION METHODS	Richard Dubroff	N 36 25/03/93 \$326,477	JONES 93-NA-211		
CURIP-FY93) IN-SITU DETERMINATION OF PASSIVATION AND CORROSION FILMS ON METALS	Li Ying-Sing	N 36 25/03/93 \$231,270	JONES 93-NA-212		
Georgia State University					

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 18

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(URIP-FY93) HYDROGEN EMBRITTLEMENT EFFECTS ON THE CRACK GROWTH OF AN Al-LI ALLOY IN HYDROGENOUS AND SCC ENVIRONMENTS Univ of Wisconsin	Hugo	N 36 25/03/93 \$186,022	JONES	93-NA-213
(URIP-FY93) DETECTION OF HIDDEN CORROSION USING JRASONIC IMAGING Univ of Houston	Ravi-Chandar	N 36 25/03/93 \$499,551	JONES	93-NA-214
BASIC AND APPLIED STUDIES OF THE RAM ACCELERATOR AS A HYPERVELOCITY PROJECTILE LAUNCHER Univ of Washington	Bruckner	R 12 25/03/93 \$200,000	A TISKOFF 93-NA-215	\$200,000 01/07/93 \$200,000
CAASERT-FY93) EXPERIMENTAL INVESTIGATION OF STRAIN LOCALIZATION IN SAND Univ of California, Los Angeles	Lude	N 36 26/03/93 \$124,880	LEWIS	93-NA-216
CAASERT-FY93) COMPUTER SIMULATION MODEL FOR DEFORMATION AND DAMAGE OF SONDED PARTICULATES Univ of Massachusetts	Chang	N 36 26/03/93 \$37,585	LEWIS	93-NA-217
CAASERT-FY93) DYNAMIC PLASTICITY FOR GRANULAR MATERIALS Duke University	Gehringer	N 36 26/03/93 \$83,694	LEWIS	93-NA-218
CAASERT-FY93) SHEAR STRENGTH OF GRANULAR MATERIAL. UTILIZING ADVANCED PHOTORELAXATION MEASUREMENT TECHNIQUES Univ of Massachusetts at Lowell	Paikowsky	N 36 26/03/93 \$199,211	LEWIS	93-NA-219
CAASERT-FY93) ROLE OF DAMAGE AND DAMAGE GROWTH ON DYNAMIC LOAD TRANSFER IN PARTICULATE MEDIA Univ of Rhode Island	Shukla	N 36 26/03/93 \$213,854	LEWIS	93-NA-220
CAASERT-FY93) INTERACTIVE ANALYSIS OF SOIL-STRUCTURE INTERACTION Univ of Washington	Sunarjo	N 36 26/03/93 \$85,215	LEWIS	93-NA-221

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 19

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE	START DATE
							RECEIVED AMOUNT	TOT AMT
(AASERT-FY93) DISTINCT ELEMENT SIMULATION AND CONSTITUTIVE MODELING OF PARTICULATE MEDIA-STRUCTURE INTERFACE	Editor Univ of Wisconsin	Tuncer	N 36 25/03/93 \$214,990	LEWIS 93-NA-222				
(AASERT FY93) GRADUATE RESEARCH IN MATERIAL INSTABILITY	J P Univ of Southern California		N 36 25/03/93 \$104,852	LEWIS 93-NA-223				
(AASERT-FY93) COMPUTATIONAL STUDY OF ACTIVE CONTROLS/STORE SEPARATION	Jardat Univ of Tennessee / Space Institute	Ahmed	N 36 27/03/93 \$150,000	SAKELL 93-NA-224				
(AASERT FY93) TIME ACCURATE COMPUTATIONAL ANALYSIS OF MIXED COMPRESSIVE INLET STABILITY	Wakili McRae North Carolina State University	D Scott	N 36 27/03/93 \$121,764	SAKELL 93-NA-225				
(AASERT-FY93) DIRECT NUMERICAL SIMULATION OF HYPERSONIC TURBULENCE SHOCK BOUNDARY LAYERS	Chung Univ of Alabama	T J	N 36 27/03/93 \$30,023	SAKELL 93-NA-226				
(AASERT-FY93) COMPLEX FLOW-CONTROL SIMULATIONS USING THE NAVIER STOKES COMPUTER	Yosanchuck Princeton University	Daniel	N 36 27/03/93 \$397,958	SAKELL 93-NA-227				
(AASERT-FY93) STUDIES OF HYPERSONIC VEHICLE FLOWFIELDS	Saito Princeton University	Alexander	N 36 27/03/93 \$235,416	SAKELL 93-NA-228				
(AASERT-FY93) STUDENT TRAINING PROGRAM IN DIGITAL PROCESSING AND DISPLAY OF IMAGES OF HIGH-SPEED, TIME-EVOLVING FLOW FIELDS	Miles Princeton University	Richard	N 36 27/03/93 \$263,071	SAKELL 93-NA-229				
(AASERT-FY93) SUPPLEMENTAL RESEARCH RELATED TO JET ENGINE COOLING	Kurosaka Univ of Washington	Mitsuru	N 36 29/03/93 \$119,898	FANT 93-NA-230				

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 20

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
(AASERT-FY93) SYRACUSE/OXFORD UNSTEADY HEAT TRANSFER PROJECT	John LaGraff	N 36 29/03/93 \$128,458	FANT		93-NA-232	
(AASERT-FY93) NEW APPROACHES TO TURBOMACHINERY INSTABILITIES - PREDICTION AND UNDERSTANDING	Edward Greitzer	N 36 29/03/93 \$115,756	FANT		93-NA-233	
(AASERT-FY93) CONTROL OF LEADING-EDGE VORTICES WITH SUCTION	Isaac N. Jui	N 36 29/03/93 \$129,227	FANT		93-NA-233	
(AASERT-FY93) EXPERIMENTAL & NUMERICAL STUDIES OF INSTADY HEAT TRANSFER IN A TUNNEL	Wing	N 36 30/03/93 \$126,151	FANT		93-NA-234	
(AASERT-FY93) CONTROL OF STALLED WINGS	Luzia Laurence	N 24 30/03/93 \$45,797	FANT		93-NA-235	
(AASERT-FY93) ACTIVE STABILIZATION OF COMPRESSORS AND INLETS	Alan Epstein	N 36 30/03/93 \$294,136	FANT		93-NA-236	
(AASERT-FY93) WIND TUNNEL FREE FLIGHT™ ON A DYNAMIC STRUT	Demetri Tselios	N 36 31/03/93 \$130,503	FANT		93-NA-237	
(AASERT-FY93) THE ORIGIN OF TRANSIENT SIDE FORCES DURING THE PITCH-AND-STOP MANEUVER	David Williams	N 36 31/03/93 \$129,672	FANT		93-NA-238	
Illinois Institute of Technology						

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 1

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	INITIATE PROPOSAL #	START DATE TOT AMT
AASERT-92 EXTRACTION OF HIGH QUALITY POTENTIAL SURFACES FROM LABORATORY DATA Princeton University	Henschel	N 36 04/01/93 \$135,402	A BURGGRAF 93-NC-069	\$134,864 15/05/93 \$135,402	
AASERT-92 AN UNEXPECTED ABSORPTION SITE EXCLUSION PROCESS ON SIC(100)-(2X1) JHU of Pittsburgh	Yates, Jr.	N 36 04/01/93 \$109,072	A ERSTFELD 93-NC-071	\$109,072 01/06/93 \$109,072	
AASERT-92 EXTENSIONS TO HYPERPOLARIZABILITY CALCULATIONS Memphis State University	Kurtz	N 36 04/01/93 \$59,316	A BURGGRAF 93-NC-074	\$59,316 15/05/93 \$59,316	
AASERT-92 FUNDAMENTAL STUDIES OF A HIGH ENERGY MOLECULAR SYSTEM: SPECTROSCOPY OF BURON IN HYDROGEN CLUSTERS California Institute of Technology	Okunura	N 36 04/01/93 \$144,576	A BERMAN 93-NC-076	\$144,576 01/06/93 \$144,576	
AASERT-92 CARBON CLUSTER IONS JHU of California, Santa Barbara	Sowers	N 36 04/01/93 \$172,472	A BERMAN 93-NC-080	\$172,472 01/06/93 \$172,472	
AASERT-92 GRADIENT INDEX LENSES FROM SOL-GEL LAYERING JHU of California, Los Angeles	Mackenzie	N 36 04/01/93 \$123,472	A ERSTFELD 93-NC-081	\$123,472 01/06/93 \$123,472	
AASERT-92 A NOVEL PHOTOCHEMICAL AND INTERFACIAL APPROACH TO THE DEGRADATION OF HAZARDOUS MATERIALS Columbia University	Tirro	N 36 04/01/93 \$103,670	A HEUBERG 93-NC-082	\$103,670 01/06/93 \$103,670	
AASERT-92 EXPERIMENTAL VERIFICATION OF OPTIMALLY DESIGNED METAL FORMING PROCESSES Flight State University	Grandhi	N 36 04/01/93 \$103,390	A ROSENSTEIN 93-NC-091	\$103,390 01/06/93 \$103,390	
ENERGY TRANSFER FROM EXCITED NITRenes AT HIGH DENSITIES JHU of Denver	Gaoabe	N 12 04/01/93 \$57,004	A BERMAN 93-NC-093	\$57,044 01/05/93 \$57,044	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE PROPOSAL #	START DATE	TOT AMT
TERMOGENOUS OXIDATIVE ELECTROCATALYSIS WITH PLATINUM SUBSTRATES COVERED BY WELL-CHARACTERIZED ANIONIC OVERLAYERS	Andrzej Wleckowski Univ of Illinois	N 36 04/01/93 \$360,000	WILKES 93-NC-094				
CRITICAL POINTS ON MANY DIMENSIONAL SURFACES - JET DIMENSIONAL REDUCTION AND THE EFFECTS OF AN EXTERNAL ENVIRONMENT	Steven Schwartz Albert Einstein College of Medicine	N 36 04/01/93 \$417,354	BURGGRAF 93-NC-096		\$3,000 01/04/92		
ZRAY 2 CALCULATIONS ON STRUCTURE OF CLUSTER IONS	Michael Tsoars Univ of California, Santa Barbara	N 12 05/01/93 \$3,000	BERMAN 93-NC-098		\$3,000 01/04/92		
CHURD) ADVANCED CRYOGENIC PROPELLANTS	V. Lukarian Univ of California, Irvine	N 48 06/01/93 \$2,760,000	BERMAN 93-NC-099		\$690,000 15/04/93		\$2,760,000
CARBONACEOUS DEPOSIT FORMATION FROM ADVANCED FUELS UNDER SUPERCRITICAL CONDITIONS	Lisa Pfefferle Prairie University	N 36 11/01/93 \$517,112	HEDBERG 93-NC-101				
THEORETICAL STUDIES ENABLING THE RATIONAL DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANCE MOLECULAR/MACROMOLECULAR ALLOYS	Mark Rother Prairie University	N 36 11/01/93 \$337,354	BURGGRAF 93-NC-102				
THE ELECTROCHEMISTRY OF SODIUM IN HIGH TEMPERATURE CHLORDALUMINATE MOLTEN SALTS	Michael Thomas Miami University	N 36 11/01/93 \$290,109	WILKES 93-NC-103				
CHURD) HIGH-TEMPERATURE AEROSPACE STRUCTURAL MATERIALS: THE MECHANICS AND MECHANICAL BEHAVIOR OF HIGH-TEMPERATURE I. N. C. Gisela	Ronald Ronald Univ of Michigan	N 48 11/01/93 \$3,200,000	ROSENSTEIN 93-NC-104		\$800,000 01/05/93		
CHURD) DESIGN AND IN SITU PROCESSING OF METAL-CERAMIC AND CERAMIC-CERAMIC MICROSTRUCTURES, INCLUDING COMPOSITES	Sass Stephen Cornell University	N 48 12/01/93 \$2,360,000	ROSENSTEIN 93-NC-105		\$590,000 01/05/93		

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 3

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	INITIATE START DATE
WURST) THE INFLUENCE OF ALLOYING AND PROCESSING ON THE MICROSTRUCTURE AND PROPERTIES OF MONOLITHIC 3ETA-NiAl Shiv of Florida	Reza	N 12/01/93 \$2,360,000	A ROSENSTEIN 93-NC-106	\$590,000 15/04/93 \$2,360,000
HALOGEN ALIDE VISIBLE CHEMICAL LASERS Jackson International, Science Center	Lenard	R 12/01/93 \$270,000	A BERMAN 93-NC-107	\$1269,435 15/04/93 \$270,000
EXCITED STATE CHEMISTRY OF PF _n NF AND NC1 Kansas State University	Satser	R 12/01/93 \$110,000	A BERMAN 93-NC-108	\$110,000 15/05/93 \$110,000
DISPLACIVE TRANSFORMATION IN CERAMICS Shiv of Illinois	Hayati	N 24/01/93 \$99,148	P PECHENIK 93-NC-109	
DIELECTRIC STRENGTHS/DENDRITIC POLYMERS Shiv of Massachusetts	Krasz	N 24/01/93 \$300,000	LEE 93-NC-110	
SIL-GEL FRACTAL METAL CLUSTER COMPOSITES FOR NONLINEAR OPTICS Washington State University	Kujyk	N 36/01/93 \$245,242	LEE 93-NC-111	
CHARACTERIZATION OF HIGH TEMPERATURE CREEP MECHANISMS IN ADVANCED CERAMICS BY GRAIN BOUNDARY SLIDING AND CAVITATION MEASUREMENTS Southwest Research Institute	Blanchard	N 40/01/93 \$620,725	P PECHENIK 93-NC-112	
CHEMICAL DYNAMICS STUDIES OF REACTIONS IN SOLIDS Akluhosa State University	Thompson	N 36/01/93 \$255,482	BERMAN 93-NC-113	\$148,881 01/05/93 \$225,678
SYSTEMATIC OPTIMIZATION OF SECOND-ORDER NONLINEAR OPTICAL MATERIALS California Institute of Technology	Yarder	N 36/01/93 \$315,777	LEE 93-NC-114	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 4

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	INITIATE START DATE TOT AMT
SINGLE-MODE PLASMON/SOL-GEL OPTICAL WAVEGUIDE MODULATORS FOR PHOTONIC APPLICATIONS	Z.	N 06 26/01/93 \$61,249	LEE 93-NC-115	
Physical Optics Corporation				
A NEW CLASS OF HIGHLY ORIENTED STABLE POLYMER MATERIALS FOR HIGH-SPEED ELECTRO-OPTIC WAVEGUIDE DEVICES	Angelo Vializis	N 06 26/01/93 \$50,000	LEE 93-NC-116	\$49,993 15/07/93
Signes Lab Inc				
(SBIR) HIGH-SPEED ELECTRO-OPTIC MODULATORS	James Rechtel	N 06 26/01/93 \$49,993	LEE 93-NC-117	\$49,993 15/07/93
Facan Corporation				
(SBIR) ORGANOSILICON POLYMERIC NONLINEAR OPTICAL MATERIALS FOR OPTICAL SWITCHING AND MODULATION	Sandip Sengupta	N 06 26/01/93 \$49,978	LEE 93-NC-118	\$49,978 15/07/93
Molecular Technologies, Inc				
(SBIR) DEVELOPMENT OF FERROELECTRIC LIQUID CRYSTALS WITH ENHANCED NONLINEAR OPTICAL PROPERTIES	Kenneth Arnett	N 06 26/01/93 \$57,110	LEE 93-NC-119	\$57,110 15/07/93
Display Tech, Inc				
A NOVEL PROCESS FOR PRODUCTION OF HIGH NLO ORGANIC FILMS	R. Loutfy	N 06 26/01/93 \$50,000	LEE 93-NC-120	
Materials & Electrochemical Rsch Corp				
(SBIR) A NEW CLASS OF NOVEL NONLINEAR OPTICAL MATERIALS FOR REAL-TIME QUASI PHASE-MATCHED SECOND HARMONIC GENERATION & BEAM STEERING	Yue Chang	N 06 26/01/93 \$49,995	LEE 93-NC-121	\$49,995 15/07/93
Laser Photonics Technology Inc				
(SBIR) NONLINEAR OPTICAL MATERIALS BASED ON CONJUGATED CONDUCTING POLYMERS	Gururaj Jilkarni	N 06 26/01/93 \$50,000	LEE 93-NC-122	
Jumps Associates, Inc				
HOST-GUEST THIN FILMS FOR NONLINEAR OPTICAL APPLICATIONS	Gret Halpern	N 06 26/01/93 \$90,349	LEE 93-NC-123	
Jet Process Corporation				

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 5

TITLE TITLE (CJMC.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SFIR) NOVEL E-O POLYMERS: STABILITY Foster-Miller Inc	NLJ MATERIALS WITH SUPERIOR TEMPORAL Fayebati	N 06 26/01/93 \$69,564	A LEE 93-NC-124	15/07/93 \$69,564
MINIATURE DISPLAY FOR HELMETS, SIMULATORS, AND TELEOPERATORS Display Tech, Inc	Mark Hanschey	N 06 26/01/93 \$62,472	LEE 93-NC-125	
A MECHANISTIC STUDY OF THE SENSITIVITY AND PERFORMANCE OF NTO New Mexico Institute of Mining and Tech	James Oxley	N 36 26/01/93 \$959,459	BERMAN 93-NC-126	
SPECTROSCOPY AND THERMAL DECOMPOSITION MECHANISMS OF NTO Univ of Utah	Charles Wright	N 36 26/01/93 \$227,985	BERMAN 93-NC-127	
ULTRAFAST LASER SPECTROSCOPY OF SHOCK WAVE DYNAMICS IN EXPLOSIVE MATERIALS STUDIED WITH NANOMETER SPATIAL RESOLUTION:NANODEXPLSIONS Univ of Illinois	Dana Dietz	N 36 26/01/93 \$474,000	BERMAN 93-NC-128	
DIFFUSION IN SMALL PORES AND OPTICAL PROPERTIES OF FULLERENE DOPED GEL-GEL GLASS Texas Christian University	Terda Waldek	N 36 25/01/93 \$323,476	ERSTFIELD 93-NC-129	
NTO - A COMPUTATIONAL STUDY Univ of Alabama	Krennich Larry	N 36 27/01/93 \$364,868	BERMAN 93-NC-131	
OPTIMIZATION PROBLEMS INVOLVING EXCITED ELECTRONIC STATES: NEW MATERIALS AND REACTION DYNAMICS Univ of Texas	Siemons Jack	N 36 27/01/93 \$321,011	BURGGRAF 93-NC-132	
KNOWLEDGE BASE FOR THE DESIGN, SYNTHESIS, AND PROCESSING OF MAXIMUM-PERFORMANCE PULSED NLO POLYMERS Northwestern University	Tobin Marks	N 36 27/01/93 \$500,244	LEE 93-NC-134	

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 21 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE INSTITUTE INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	INITIATE START DATE TOT ANT		PAGE
			AMOUNT	PROGRAM MANAGER	
STUDIES OF NTG DECOMPOSITION Memphis State University	N 36 28/01/93 \$263,554	BERMAN 93-NC-135			6
CHEMICAL MECHANISMS OF SHOCK INITIATION OF NTG SRI International	N 36 29/01/93 \$452,261	BERMAN 93-NC-137			
SENSITIVE HIGH EXPLOSIVES: SHOCK INDUCED DECOMPOSITION OF ENERGETIC MATERIALS SRI International	N 36 28/01/93 \$450,000	BERMAN 93-NC-138			
ATOMIC LEVEL CONTROL OF ULTRATHIN DIALECTRIC FILM GROWTH ON SILICON SURFACES Juih of Washington	N 36 01/02/93 \$421,843	ERSTFIELD 93-NC-139			
MICROSTRUCTURAL MECHANISMS OF SOLID STATE HOT SPOT REACTION INITIATION BY SHOCK IN NTG, 3-NITRO-1,2,4-TRIAZOL-5-ONE Naval Surface Weapons Ctr/White Oak Lab	N 36 01/02/93 \$488,153	BERMAN 93-NC-140			
ULTRAFAST DYNAMICS OF CHEMICAL REACTIONS California Institute of Technology	N 36 01/02/93 \$799,475	BERMAN 93-NC-141			
ALGORITHMS FOR FINDING ARIMA AND SADDLE POINTS ON AS INVITO MOLECULAR POTENTIAL ENERGY SURFACES Levine State University	N 36 01/02/93 \$174,838	SURGGRAF 93-NC-142			
TRANSITION STATE SPECTROSCOPY OF VIBRATIONALLY EXCITED ANIONS Univ of California Berkeley	N 36 01/02/93 \$614,029	BERMAN 93-NC-143			
STUDIES OF KINETICS IN SUPERCRITICAL FLUIDS Northeastern University	N 36 01/02/93 \$442,510	BERMAN 93-NC-144			

TITLE TITLE (CONT'D.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SELF-ASSEMBLY APPROACHES TO INTRINSICALLY ACENTRIC THIN FILM NLO MATERIALS Northwestern University	Tobin	N 36 01/02/93 \$399,211	LEE 93-NC-145	
FEMTOSECOND NONLINEAR SPECTROSCOPY OF CHEMICAL REACTION AND ENERGY TRANSFER IN SUPERCRITICAL FLUIDS Univ of Pennsylvania	Schaefer Norbert	N 36 01/02/93 \$518,750	BERMAN 93-NC-146	
COMPUTATIONALLY EFFICIENT MODELS FOR THE CALCULATION OF STRUCTURES AND PROPERTIES OF MATERIALS Univ of Arkansas	Pulay Peter	N 36 01/02/93 \$203,472	BURGGRAF 93-NC-147	
ROLE OF IONIC INTERMEDIATES IN THE SHOCK - INDUCED DECOMPOSITION OF NFO Michigan Technological University	Wendehall G. David	N 35 01/02/93 \$444,397	BERMAN 93-NC-148	
DUCTILE PHASE REINFORCED CERAMIC COMPOSITES Case Western Reserve University	Heuer A.	N 36 01/02/93 \$600,633	PECHENIK 93-NC-149	
CHEMISTRY OF CATALYSTS FOR ENDTHERMIC FUELS Univ of Southern California	Koel Bruce	N 36 03/02/93 \$209,054	ERSTFIELD 93-NC-150	
LASER PROCESSES OF ENERGY TRANSFER AND COLLISION DYNAMICS IN SUPERCRITICAL FLUIDS Columbia University	Lynn George	N 36 03/02/93 \$632,375	BERMAN 93-NC-151	
TRANSITION STATE OPTIMIZATION General Atomics	Taylor Peter	N 36 03/02/93 \$233,943	BURGGRAF 93-NC-152	
DEVELOPMENT OF THE GENETIC ALGORITHM FOR THE GLOBAL OPTIMIZATION OF POLYMERIC MATERIALS Pennsylvania State University	Hertz Kenneth	N 36 03/02/93 \$265,699	BURGGRAF 93-NC-153	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 8

TITLE TITLE (CONT'D.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	STATUS INITIATE START DATE TOT AMT
ELECTRO-OPTIC POLYMERS WITH IMPROVED THERMAL STABILITY Battelle Columbus Labs	Scheerzel Robert	N 36 03/02/93 \$315,000	LEE 93-NC-154	
EXPLORING SUGGED ENERGY LANDSCAPE IN LARGE SYSTEMS Univ of Maryland	Thirumalai Devarajan	N 36 03/02/93 \$265,694	BURGGRAF 93-NC-155	
DCM DYE-DOPED POLYMER WAVEGUIDES FOR NOVEL VISIBLE LASER SOURCES AND OPTICAL SIGNAL PROCESSING Laser-Matter Interactions Labs	Mukherjee Anadi	N 06 04/02/93 \$58,060	LEE 93-NC-156	
NEW IR TO VISIBLE UPCONVERSION IN DYE-DOPED POLYMER THIN FILMS AND WAVEGUIDES Laser-Matter Interactions Labs	Mukherjee Anadi	N 06 04/02/93 \$58,432	LEE 93-NC-157	
NEW HIGH PERFORMANCE GUEST-HOST MATERIALS FOR OPTOELECTRONIC APPLICATIONS Taxdex Incorporated	Jang Ying	N 06 04/02/93 \$49,923	LEE 93-NC-158	
ORGANIC/POLY(ERIC MONOLINEAR OPTICAL MATERIALS)toElectronic Data Systems	Padiasic Yasma	N 06 04/02/93 \$49,239	LEE 93-NC-159	
ORGANIC/POLY(ERIC MONOLINEAR OPTICAL MATERIALS CATFA Technology, Inc	Lu-Yeung Vincent	N 06 04/02/93 \$49,948	LEE 93-NC-160	
A WIDE-BAND, HIGHLY CONJUGATED, NON-CENTROSYMMETRIC (HCNC) GUEST/ HOST MONOLINEAR POLYMER Volex Corp	Palka David	N 06 04/02/93 \$49,949	LEE 93-NC-161	
HIGH THERMAL STABILITY ELECTRO-OPTIC POLYMERS FOR WAVE GUIDE DEVICES QSI Technology	Mass Michael	N 06 04/02/93 \$50,000	LEE 93-NC-162	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 9

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	INITIATE START DATE	TOT ANT
DEVELOPMENT OF EFFICIENT AND UNIVERSAL DERIVATIVE METHODS FOR LARGE SCALE SYSTEMS Polycomics Research Institute	Kowarnicki, Andrew	N 36 05/02/93 \$674,196	BURGRAF 93-NC-163		
ORGANIC KERR-LIQUID-FILLED MOLLEL FILTER AS A NOVEL MULTIWAVE- LENGTH LASER SOURCE FOR LIDAR SENSOR SYSTEMS, COMMUNICATION & SPEC -Laser Optics Technology Inc	Syszard Turzynski	N 24 05/02/93 \$742,287	LEE 93-NC-164		
OPTIMIZATION OF GEOMETRIC STRUCTURES OF NEW MATERIALS ON PARALLEL COMPUTERS Univ of California, San Diego	Ware, John	N 36 05/02/93 \$151,501	BURGRAF 93-NC-165		
CHEMICAL REACTIONS INDUCED BY SHEAR-STRAINS IN SOLIDS Univ of Maryland	Armstrong, R.	N 36 05/02/93 \$659,000	BERMAN 93-NC-166		
LITERFAST NONLINEAR OPTICAL INVESTIGATIONS OF SUPERCRITICAL FLUIDS Stanford University	Sayer, Michael	N 36 05/02/93 \$502,675	BERMAN 93-NC-167		
LARGE AMPLITUDE VIBRATIONS IN POLYATOMIC MOLECULE SPECTRA: INTRAMOLECULAR VIBRATIONAL REDISTRIBUTION AND ISOMERIZATION Massachusetts Institute of Technology	Feld, Robert	N 36 03/02/93 \$513,740	BERMAN 93-NC-168		
STATE-TO-STATE REACTIVE AND COLLISIONAL DYNAMICS OF ATMOSPHERIC SPECIES Univ of Colorado	Vassitt, David	N 36 08/02/93 \$546,217	BERMAN 93-NC-169		
LATERALLY DEFINED NANOSCALE STRUCTURES: FILM GROWTH, CHEMISTRY, AND TRANSPORT Univ of Wisconsin	Lagally, Max	N 36 10/02/93 \$632,480	ERSTFIELD 93-NC-170		
AN EXPERIMENTAL AND COMPUTATIONAL STUDY OF THE CRYSTAL ORIENTATION DEPENDENCE OF SHOCK SENSITIVITY Los Alamos Nat'l Lab--Appl Theor Phys Div	Dick, Jerry	N 36 12/02/93 \$300,000	BERMAN 93-NC-171		

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 10

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT AMT
EXPERIMENTAL AND COMPUTATIONAL STUDY OF FAILURE MECHANICS IN NANOPHASE CERAMICS Purdue Research Foundation	Horacio Zabimosa	N 36 16/02/93 \$250,959	PECHENIK 93-NC-172	
CHEMICAL PHYSICS OF UNIFORM CYCLIC ETCHING Univ of California, San Diego	Russell Andress	N 36 15/02/93 \$303,532	ERSTFELD 93-NC-173	
NANOSTRUCTURED THIRD ORDER NLJ MATERIALS FOR TRANSPARENCY Ishein James	D. Chandrasekhar	N 06 16/02/93 \$49,847	LEE 93-NC-174	
ULTRAFAST LASER MEASUREMENT OF CHEMISTRY AND STRUCTURE OF SHOCKED EXPLOSIVES Atlantic Research Corp	Graham Kenneth	N 36 17/02/93 \$150,435	BERRMAN 93-NC-175	
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS, Luhsan Loong Co	Thomas	R 12 18/02/93 \$698,635	A ERSTFELD 93-NC-176	\$578,635 15/05/93 \$698,635
ADVANCED CERAMICS FROM LIQUID SOLUTIONS Univ of California, Los Angeles	MacKenzie John	N 36 19/02/93 \$762,301	ERSTFELD 93-NC-177	
TRANSITION RATES AND SADDLE POINTS IN TRANSITION TRAJECTORY MONTE CARLO: THEORY OF DOPANT AND DEFECT KINETICS IN SILICON Linton University	Yaneer	N 36 19/02/93 \$330,210	BURGGRAF 93-NC-178	
USE OF BLOCK COPOLYMER AS POLYMER BLEND COMPARTISILIZER Univ of Cincinnati	Bob	N 36 22/02/93 \$379,841	LEE 93-NC-179	
FASE ASSESSMENT OF NEW AIR FORCE CHEMICALS SRI International	Theodore Will	N 36 22/02/93 \$550,420	HEDBERG 93-NC-180	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 11

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	COMPUTER SIMULATION OF FRACTURE TOUGHNESS IN AEROSPACE MATERIALS	JHU/ Connecticut	Philip Clapp	ENVIRONMENTAL FATE OF QUADRICYCLANE AND AMMONIUM DINITRAMIDE IN SOILS AND AT THE ATMOSPHERE-SOIL INTERFACE	Glenn Miller Univ of Nevada	N 36 23/02/93 \$547,497	ROSENSTEIN 93-NC-181	STATUS TYPE/MONTHS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
WYEL ELECTRO-OPTICAL POLYMERS FOR PHOTONICS AND LASER TECHNOLOGIES	Illinois Institute of Technology	1993 GORDON RESEARCH CONFERENCE ON DYNAMICS OF GAS-SURFACE INTERACTIONS	Gordon Research Conferences Inc	Arja Mandai	N 36 24/02/93 \$321,801	LEE 93-NC-183					
METIUS	Jet Propulsion Laboratory	APPROACHES FOR OPTIMIZING THE FIRST ELECTRONIC HYPERPOLARIZABILITIES OF CONJUGATED ORGANIC MOLECULES	Seth Harder	Horia Motiu	N 12 25/02/93 \$10,800	D ERNSTFELD 93-NC-184					
Harper		4HIGH CONTRAST ORGANIC CRYSTAL OPTICAL MODULATOR FOR PHASED ARRAY ANTENNA AND OPTICAL SIGNAL PROCESSING SYSTEMS	Seth Harder		N 12 25/02/93 \$187,000	A LEE 93-NC-185					
		Jet Propulsion Laboratory					\$187,000	01/10/92			
							\$187,000	\$187,000			
EFFECTS OF SORPTION/DESORPTION REACTIONS ON THE FATE OF QUAD- RACYCLANE, FLUOROCARBON ETHERS, AMMONIUM DINITRAMIDE IN SOILS & SED	Ohio State Univ Research Foundation	Traina	Samuel Traina	Olli Tuovinen	N 36 03/03/93 \$983,134	HEDBERG 93-NC-187					
MICROBIAL DEGRADATION OF HMX, RDX AND NITROGLYCERIN	Ohio State Univ Research Foundation				N 36 03/03/93 \$364,459	HEDBERG 93-NC-188					
ENERGETIC SPECIES IN CONDENSED OXYGEN	SRI International				N 36 03/03/93 \$450,035	BERMAN 93-NC-189					

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 12

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER & PROPOSAL #	INITIATE START DATE TOT AMT
THEORETICAL STUDY OF HYDROGEN FUEL ADDITIVES AND OTHER HEOM SPECIES SRI International	Saxon Roberta	N 03/03/93 \$453,434	BERMAN 93-NC-190	
ENVIRONMENTAL FATES AND BIOLOGICAL EFFECTS OF QUADRACYCLINE AND AMMONIUM DINITRAMIDE Jniv of Illinois	Larson Richard	N 03/03/93 \$994,850	HEDBERG 93-NC-191	
ENVIRONMENTAL FATE STUDIES OF SELECTED HAZARDOUS MATERIALS FOR EXPOSURE AND RISK ASSESSMENTS Jniv of Michigan	Simmons Milagros	N 03/03/93 \$363,991	HEDBERG 93-NC-192	
PHOTOCHEMICAL AND MICROBIAL REACTIVITY OF QUADRACYCLINE, DINITRAMIDE AND PERFLUOROPOLYMERS Jniv of Wyoming	Sullivan T. Patrick	N 03/03/93 \$490,795	HEDBERG 93-NC-193	
1993 GORDON CONFERENCE ON HIGH TEMPERATURE CORROSION Gordon Research Conferences Inc	Salaek James	N 04/03/93 \$4,000	D PECHENIK 93-NC-194	
SYNTHESIS OF HIGH-ENERGY DENSITY MATERIALS BASED ON STRAINED- RING COMPOUNDS Jniv of Pennsylvania	Dailey, III William	N 05/03/93 \$362,614	BERMAN 93-NC-195	
PHOTOCHEMICAL AND MICROBIOLOGICAL DEGRADATION OF HAZARDOUS CHEMICALS IN NATURAL WATER AND SOIL State University Jf New York - Resch Fnd	Hassett John	N 05/03/93 \$506,372	BERMAN 93-NC-196	
INFLUENCE OF ALTERNATIVE ELECTRON ACCEPTORS ON ANAEROBIC BIODEGRADATION OF NITRAMINES AND NITRATE ESTERS Rutgers - The State University	Haggblom Max	N 05/03/93 \$399,254	HEDBERG 93-NC-197	
PHOTOCHEMICAL DEGRADATION OF FLUOROCARBON ETHERS Jniv of Texas Medical Branch	Trieff Norman	N 05/03/93 \$523,536	HEDBERG 93-NC-198	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM PROPOSAL #	INITIATE START DATE	TOT AMT
DEVELOPMENT OF CONTINUOUS VISIBLE CHEMICAL LASER AMPLIFIERS AND OSCILLATORS FROM THE NA-X (CL, BR, I) REACTIONS AND THEIR ANALOGS..	Georgia Tech Research Corporation	James Gola	R 05/03/93 \$120,000	A PERRAM 93-NC-199	\$120,000 01/05/93	
SOLUTION AND INTERFACIAL CHEMISTRY AND MICROBIOLOGY OF AIR FOKC 4AZAPUOUS MATERIALS	Intersouth Intertel Pacific Northwest Laboratories	Calvin Lin	N 05/03/93 \$1,140,000	HEDBERG 93-NC-200		
BIOREMEDIATION OF NITROAROMATIC EXPLOSIVE COMPOUNDS USING COMBINED AEROBIC AND AEROBIC MICROBIAL PROCESSES	Goldberg Allied Signal Inc	Ina	N 05/03/93 \$299,091	HEDBERG 93-NC-201		
-LASER AND FOURIER TRANSFORM SPECTROSCOPY OF NOVEL PROPELLANT MOLECULES	Gernath Univ of Waterloo	Peter Gernath	N 16/03/93 \$224,462	BERMAN 93-NC-202		
SYNTHESIS OF NOVEL HIGH ENERGY DENSITY COMPOUNDS	Christie Rockwell International	K. Christie	N 16/03/93 \$635,186	BERMAN 93-NC-203		
EFFECT OF ELECTRON BEAM RADIATION ON ROCKET MOTOR COMPONENTS AND FLYIR BONDING	Kalley Univ of Akron	Frank Kalley	N 16/03/93 \$122,983	LEE 93-NC-204		
SYNTHESIS & STRUCTURAL CHARACTERIZATION OF NEW LIGHT ELEMENT INORGANIC FLUORIDE OXIDIZERS AND RELATED DERIVATIVES	Schroblizen Worcester University	J. Schroblizen	N 17/03/93 \$848,000	BERMAN 93-NC-205		
THE SYNTHESIS AND CHARACTERIZATION OF NANOPHASE Y3Al5O12 (YAG) PARTICLES FROM AN AEROSOL OF ORGANO-METALLIC PRECURSORS	Worse Brown University	T. Worse	N 18/03/93 \$549,109	PECHENIK 93-NC-206		
ASCERTAIN EXPERIMENTAL INVESTIGATION OF OPTICAL NONLINEARITIES IN CONJUGATED POLYMERS	Stegeman Univ of Central Florida	George Stegeman	N 22/03/93 \$149,928	LEE 93-NC-207		

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 16

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY ANT
1A5ERT93 ELECTROCHEMICAL DEPOSITION OF SEMICONDUCTORS FROM SINGLE-SOURCE PRECURSORS Duke University	Louie Caurv	N 36 22/03/93 \$96,362 ERSTFELD 93-NC-208		
1A5ERT93 STUDENT TRAINING IN ORGANIC SUPERCONDUCTOR RESEARCH Indiana University/Jryan Hall	Montgomery Lawrence	N 36 22/03/93 \$264,847 LEE 93-NC-209		
1A5ERT93 NOVEL MATERIALS AND DEVICES FROM SELF-ASSEMBLED PERIODIC STRUCTURES Univ of Pittsburgh	Ashar Ashar	N 36 22/03/93 \$135,495 ERSTFELD 93-NC-210		
1A5ERT93 A STUDY OF CARBON-CARBON INTERFACES BY USING STM/AFM Massachusetts Institute of Technology	Janez Nagyjar	N 36 22/03/93 \$156,632 PECHENIK 93-NC-211		
1A5ERT93 ENHANCED NONLINEAR OPTICAL PROCESSES Univ of Pennsylvania	Sarita Anthony	N 36 23/03/93 \$278,237 LEE 93-NC-212		
1A5ERT93 KINETICS AND SPECTROSCOPY OF PF AND ASF MOLECULES Kansas State University	Setser Dan	N 36 23/03/93 \$81,092 BERMAN 93-NC-213		
1A5ERT93 ALTERNATIVE ETCHANTS FOR SURFACE DEFECT CONTROL IN POLYMERS Univ of California, San Diego	Kurnell Andrew	N 36 23/03/93 \$126,792 ERSTFELD 93-NC-214		
1A5ERT93 MAGNETIC FIELD EFFECTS ON PHASE TRANSITIONS, TEXTURE AND EFFECTS IN CHOLESTERIC LIQUID CRYSTALLINE POLYMER THIN FILMS Massachusetts Institute of Technology	Edwin Ross	N 36 23/03/93 \$139,327 LEE 93-NC-215		
1A5ERT93 ENVIRONMENTAL EFFECTS ON HIGH DENSITY MATERIALS Univ of Georgia	Schaefer II Henry	N 36 23/03/93 \$266,748 BURGRAF 93-NC-216		

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 15

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER #	INITIATE START DATE FOR ANT
1ASERT93 NEW MATERIALS FOR NONLINEAR OPTICAL DEVICES Jniv of California, Irvine	Shea Kenneth	N 36 23/03/93 \$130,638	LEE 93-NC-217	
1ASERT93 NONLINEAR OPTICAL RESPONSE OF CONFINED EXCITONS IN MOLECULAR AND SEMICONDUCTOR Jniv of Rochester	Mukamel Shawl	N 36 23/03/93 \$298,925	BURGGRAF 93-NC-218	
1ASERT93 NEW ROUTES TO FLUORINATED LIGANDS AND POLYMERS Dartmouth College	Hughes Russell	N 36 23/03/93 \$151,449	HEDBERG 93-NC-219	
1ASERT93 INVESTIGATION OF INTERACTIONS INVOLVING BORON ATOMS Johns Hopkins University	Dodigian Paul	N 36 23/03/93 \$91,840	BERMAN 93-NC-220	
1ASERT93 SYNTHESIS OF NEW HIGH-ENERGY FUELS BASED ON STRAINED-RING HYDROCARBONS Jniv of Pennsylvania	Castley William	N 36 23/03/93 \$286,560	BERMAN 93-NC-221	
1ASERT93 ALL-OPTICAL POLYMER FIBER DEVICES Washington State University	Kuzayk Mark	N 36 23/03/93 \$115,518	LEE 93-NC-222	
1ASERT93 FEMTOSECOND DYNAMICS OF EXCITONS IN SEMICONDUCTOR QUANTUM DOTS Jniv of Florida	Simons Joseph	N 36 23/03/93 \$105,356	ERSTFELD 93-NC-223	
1ASERT93 CREEP BEHAVIOR OF ORIENTED REFRACTORY METAL COMPOSITES wright State University	Weiss Isaac	N 36 23/03/93 \$77,101	ROSENSTEIN 93-NC-224	
1ASERT93 BASIC STUDIES ON LUBRICATION SCHEMES FOR SILICON NITRODE- 4-50 STEEL HYBRID BEARING SYSTEMS FOR ADVANCED TURBINE ENGINES Jniv of Florida	Aldair James	N 36 23/03/93 \$150,000	PECHENIK 93-NC-225	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 16

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
1A8ERT93 NEW HIGH-PRESSURE DIAGNOSTIC TECHNIQUE Stanford University	Zare Richard	N 36 23/03/93 \$102,846	BERMAN 93-NC-226	
1A8ERT93 FUNDAMENTAL STUDIES IN MINERALIZATION JHU of Washington	Sariyasa Mohamed	N 36 23/03/93 \$117,029	HEDBERG 93-NC-227	
1A8ERT93 SYNTHESIS OF PAN AND PITCH DERIVATIVES CONTAINING BORON FOR HIGH THERMAL OXIDATIVE STABLE CARBON Pennsylvania State University	Chung T.	N 36 23/03/93 \$109,117	ERSTFIELD 93-NC-228	
1A8ERT93 NEW FLUORALKYL AND FLUOROARYL COMPOUNDS AS STABLE FLUIDS OR FLUID PRECURSORS University of Idaho	Shreeve Jeanne	N 36 23/03/93 \$196,114	HEDBERG 93-NC-229	
1A8ERT93 REACTIVE ION SCATTERING AND DEPOSITION: THE ROLE OF MULTI-CHANNEL CHARGE Cornell University	Cooper Barbara	N 36 23/03/93 \$117,035	ERSTFIELD 93-NC-230	
1A8ERT93 STATE-TO-STATE COLLISIONAL DYNAMICS OF ATMOSPHERIC SPECIES JHU of Colorado	Nesbitt David	N 36 23/03/93 \$121,923	BERMAN 93-NC-231	
1A8ERT93 INTERFACE STUDIES IN CERAMIC MATRIX COMPOSITES City College - CUNY	Fardun Jalali	N 36 23/03/93 \$116,559	PECHENIK 93-NC-232	
1A8ERT93 NOVEL SURFACE TREATMENTS FOR SIC FIBERS IN GLASS-CERAMIC COMPOSITES Brown University	Nutt Steven	N 36 23/03/93 \$252,367	PECHENIK 93-NC-233	
1A8ERT93 MICROSTRUCTURE AND RELIABILITY OF OXIDE-BASED CERAMIC COMPOSITES Carnegie-Mellon University	Reedey Michael	N 36 23/03/93 \$258,342	PECHENIK 93-NC-234	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED		STATUS PROPOSAL #	INITIATE START DATE TOT AMT
		AMOUNT	PROGRAM MANAGER		
AASERT93 CRACK PATH IN NIAl SINGLE CRYSTAL Jniv of Florida	Ebrahimi			N 36 23/03/93 \$102,301	ROSENSTEIN 93-NC-235
AASERT93 STUDIES OF WEAKLY SOUND COMPLEXES AND REACTIVE INTERMEDIATES VIA THRESHOLD PHOTODETACHMENT SPECTROSCOPY Jniv of California, Berkeley	Daniel			N 36 23/03/93 \$113,767	SERMAN 93-NC-236
AASERT93 BLOCK COPOLYMER THIN FILMS Jniv of Minnesota	Frates			N 36 24/03/93 \$134,284	LEE 93-NC-237
AASERT93 NUCLEATION DURING CHEMICAL VAOUR DEPOSITION ON OXIDE SUBSTRATES Jroen University	Sheldon			N 36 24/03/93 \$175,627	PECHENIK 93-NC-238
AASERT93 POLYMERIC LASER DIODES: A NEW AND NOVEL LIGHT SOURCE Jniv of Arizona	Deyghambardian			N 36 24/03/93 \$90,000	Yasser 93-NC-239
AASERT93 INVESTIGATION OF NON-LINEAR OPTICAL CHARACTERISTICS OF THIN FILMS Illinois ACM University	Venkateswarlu			N 36 24/03/93 \$120,942	putcha 93-NC-240
AASERT93 AN AASERT PROPOSAL FOR THE DEVELOPMENT OF ADVANCED PHOTONIC MATERIALS Jniv of Southern California	Walton			N 36 24/03/93 \$393,265	Larry 93-NC-241
AASERT93 TOUGHENING MECHANISMS IN VARIABLE INTERFACE STRENGTH COMPOSITES Jniv of Illinois	Kriven			N 36 24/03/93 \$349,965	Waltraud 93-NC-242
AASERT93 TRACE ELEMENT ANALYSIS FOR IMPROVING FAILURE USING LASER ABLATION & INDUCTIVELY COUPLED PLASMA OF RESONANCE IONIZATION SPEC Jniv of Florida	Paul			N 36 24/03/93 \$150,000	PECHENIK 93-NC-243

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 18

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE
TITLE (CONT.)		AMOUNT	PROGRAM MANAGER PROPOSAL #	TOT ANT
IASERT93 PHOTONICS AND NONLINEAR OPTICS WITH MOLECULAR AND POLYMERIC MATERIALS	Paras	N 36 24/03/93 \$171,201	LEE	93-NC-244
State University of New York				
IASERT93 IN-SITU JUMPING OF ORGANIC POLYMERS FOR OPTICAL WAVEGUIDES	Robert Krennavek	N 36 24/03/93 \$117,291	LEE	93-NC-245
AND DEVICES				
Jacksonville University				
IASERT93 MICROMECHANISMS OF CRACK GROWTH IN LAMINATED INTERMETALLIC COMPOSITE MICROSTRUCTURES	Robert Ritchie	N 36 24/03/93 \$150,000	ROSENSTEIN	93-NC-246
Jniv of California, Berkeley				
IASERT93 THEORETICAL DYNAMICS STUDIES OF CHEMICAL REACTIONS IN SOLIDS	Donald Thompson	N 36 24/03/93 \$157,505	BURGGRAF	93-NC-247
Oklahoma State University				
IASERT93 HIGH TEMPERATURE STRUCTURAL MATERIALS-CREEP AND FRACTURE PROPERTIES OF LAMINATED METAL COMPOSITES	Anya Aukherjee	N 36 24/03/93 \$149,597	ROSENSTEIN	93-NC-248
Jniv of California, Davis				
IASERT93 HIGH PERFORMANCE METAL FILMS: PREPARATION AND CHARACTERIZATION	Arthur Hubbard	N 36 24/03/93 \$100,285	WILKES	93-NC-249
Jniv of Cincinnati				
IASERT93 ALIGNMENT AND SURFACE SCIENCE TRAINING	Steven Libener	N 36 24/03/93 \$125,169	ERSTFELD	93-NC-250
Jniv of Chicago				
IASERT93 INORGANIC-ORGANIC MOLECULAR BONDING IN POROUS MATRICES	Larry Hench	N 36 24/03/93 \$88,600	ERSTFELD	93-NC-251
Jniv of Florida				
IASERT93 SUPERCOMPUTER MODELING AND DESIGN OF MATERIALS	Rob Coalson	N 36 24/03/93 \$139,165	ROSENSTEIN	93-NC-252
Jniv of Pittsburgh				

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 19

TITLE TITLE (CO-PI)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE FOR ANT
AASERT93 TRANSPORT AND RELAXATION OF LUBRICANT FLUIDS AT HIGH PRESSURE Univ of Illinois	Jones	N 36 24/03/93 \$92,177	ERSTFELD 93-NC-253	
AASERT93 BIO-AIMETIC MINERALIZATION OF BACTERIA Univ of Arizona	Calvert	N 36 24/03/93 \$148,391	HEDBERG 93-NC-254	
AASERT93 PREPARATION OF POLYMERIC ORGANIC SUPERCONDUCTOR MODEL COMPOUNDS Northern Illinois University	Sangler	N 36 24/03/93 \$195,571	LEE 93-NC-255	
AASERT93 WHAT IS THE SOURCE OF ELECTRONIC ANHARMONICITY? Univ of Pittsburgh	Beratan	N 36 24/03/93 \$132,830	LEE 93-NC-256	
AASERT93 GRADUATE AND UNDERGRADUATE STUDENT SUPPORT TO STUDY PLASMA ION MOLECULE CHEMISTRY Univ of Utah	Armentrout	N 36 24/03/93 \$77,762	BERMAN 93-NC-257	
OPTIMIZATION OF SECOND ORDER NLO MATERIALS California Institute of Technology	Warder	N 12 24/03/93 \$57,000	A LEE 93-NC-258	\$57,000 01/05/93 \$57,000
AASERT93 COMPUTATIONAL AND EXPERIMENTAL STUDIES OF INITIATION PROCESSES IN PROPELLANTS AND EXPLOSIVES New Mexico Institute of Mining and Tech	Williams	N 36 26/03/93 \$263,077	BERMAN 93-NC-259	
CEPIR) MULTIFUNCTIONAL POLYMERS Facet Corporation	Salour	N 24 26/03/93 \$500,000	LEE 93-NC-260	
(SBIR) PROPULSION AND PROPELLANTS FOR ANTI-SATELLITE (ASAT) Eurochem Inc	Kurt	N 24 26/03/93 \$499,984	HEDBERG 93-NC-261	

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER & PROPOSAL #	INITIATE START DATE TOT AMT
LASER93 INVOLVING MINORITIES IN UNDERGRADUATE MATERIALS RESEARCH JUNIV OF PITTSBURGH	Pratt David	N 36 26/03/93 \$29,440	A ERSTFELD 93-NC-262	\$100,000 01/07/93 \$300,000
JET93 KTP SCANNING TUNNELING MICROSCOPY STUDIES OF THE MORPHOLOGY AND KINETIC PATHWAYS FOR CORROSION REACTIONS OF STRESSED MATERIALS JUNIV OF CHICAGO	Sibener Steven	N 36 26/03/93 \$300,000	A 93-NC-263	
LASERT93 THEORETICAL STUDIES OF REACTION SURFACES LOWA STATE UNIVERSITY	Gordon Mark	N 36 29/03/93 \$119,310	BURGGRAF 93-NC-264	
LASERT93 VIBRATIONAL SPECTROSCOPY AND FEMTOSECOND DYNAMICS AT LIQUID/SOLID INTERFACES COLUMBIA UNIVERSITY	Eisenthal Kenneth	N 36 29/03/93 \$311,300	HEDSERG 93-NC-265	
C3TER SYNTHESIS AND THERMAL STABILITY OF NLO CHROMOPHORES DATA TECH SYSTEMS RESEARCH INC.	Soni Sam	N 24 29/03/93 \$755,934	LEE 93-NC-266	
SILICA FRESHEL LENS FOR LASER COMMUNICATIONS DATA-Tech, Inc.	Voges Jean-Luc	N 06 29/03/93 \$68,949	LEE 93-NC-267	\$69,949 01/07/93 \$69,949
NOVEL SOL-GEL DEPOSITION FOR REPAIR OF CONDUCTING PATHS IN POLYCARBONIC SYSTEMS JAROS ASSOCIATES, INC.	Jany Jannson Tomasz	N 06 29/03/93 \$50,000	LEE 93-NC-268	\$50,000 01/07/93 \$50,000
POLYMER-BASED ALL-OPTIC RECONFIGURABLE INTERCONNECTS PHYSICAL OPTICS CORPORATION	Wright J.	N 06 30/03/93 \$130,828	LEE 93-NC-269	\$61,139 01/07/93 \$61,139
STABILIZED HYDROGEN RINGS JUNIV OF CARLETON		N 24 30/03/93 \$130,828	BERMAN 93-NC-270	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 21

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MON. RECEIVED	AMOUNT	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT ANT
PROPOSAL TO PRODUCE NOVEL, TRANSPARENT RADIATION HARD, LOW REFRACTIVE INDEX POLYMERS Optical Polymer Research	Schuman Werner	N 06 30/03/93 \$50,000	LES A 93-NC-271	\$50,000 01/07/93	\$50,000
LASERT93 PREPARATION OF HIGH-TEMPERATURE POLYMERS FOR SOL-GEL TECHNOLOGY Univ of Cincinnati	Mark James	N 36 30/03/93 \$135,713	LEE 93-NC-272		
WASEPT93 ELECTROPLATING OF REFRactory METALS USING HALOALUMINATE 4ETLS Univ of Tennessee	Markantov Glob	N 36 30/03/93 \$71,640	WILKES 93-NC-273		
CLUSTER MODELS OF METAL-SEEDED ENERGETIC MATERIALS Jnliv of Georgia	Duncan Michael	N 36 30/03/93 \$272,052	BERMAN 93-NC-274		
A STUDY OF THE SYNTHETIC SURFACE CHEMISTRY AND STRUCTURE OF SILICON NITRIDE-BASED MATERIALS BY NUCLEAR MAGNETIC RESONANCE Colorado State University	Gary Vaciel	N 36 31/03/93 \$999,997	D BURGRAF 93-NC-275		
HIGH ENERGY DENSITY SYSTEMS IN CRYOGENIC MEDIA: THE PRODUCTION AND DYNAMICS OF REACTIVE SPECIES Northeastern University	Weitz Eric	N 36 31/03/93 \$444,621	BERMAN 93-NC-276		

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 1

TITLE TITLE (CONT.) INSTITUTE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
DETECTION OF PLASMA CLUSTERS WITH THIN MAGNETIC FILMS - TECHNICAL EASEABILITY STUDY Jr Ocean Office of Aerospace R&D	Hackett Kirk	N 09 04/01/93 \$25,000	A BARKER 93-NE-157	\$0 15/01/93 \$25,000
ORGANIZATION AND CONDUCT OF THE NINTH AMERICAN CONFERENCE ON CRYST IL GROWTH (ACCG-9) Massachusetts Institute of Technology	Fitt August	N 12 13/01/93 \$3,000	A WITT 93-NE-160	\$3,000 15/07/93 \$3,000
SYMPOSIUM 3: SILICON-JASCO OPTOELECTRONIC MATERIALS Materials Research Society	Ballance John	N 12 15/01/93 \$2,000	A POMRENKE 93-NE-161	\$2,000 15/06/93 \$2,000
PARALLEL ERROR CODING/DECODING FOR HIGHLY PARALLEL MEMORIES Univ of Arizona	Mark Weifeld	N 36 25/01/93 \$274,348	CRAIG 93-NE-162	
PARALLEL HOLOGRAPHIC RECORDING AND READOUT USING ULTRASHORT LIGHT JULSFS Surdue Research Foundation	Weiner Andrew	N 36 25/01/93 \$470,739	CRAIG 93-NE-163	
EXACT PHYSICAL MODELS AND METHODS FOR STABILIZATION AND CONTROL OF REFLECTION-INDUCED INSTABILITIES IN SEMICONDUCTOR LASERS Univ of Arizona	Moloney J.	N 30 25/01/93 \$248,617	A CRAIG 93-NE-164	\$49,990 15/05/93 \$248,617
LOCAL AREA NETWORK COMMUNICATIONS BASED ON AN OPTICAL SOLUTION TECHNOLOGY Univ of Arizona	Vassili A.	N 36 25/01/93 \$470,739	CRAIG 93-NE-165	
NOVEL SQUID-BASED MAGNETIC FIELD MEASUREMENT TECHNIQUE, WITH SHEET CURRENT EXCITATION, FOR AEROSPACE APPLICATIONS Physical Research Inc.	Fitzpatrick Gerald	N 06 25/01/93 \$49,962	WEINSTOCK 93-NE-166	
COMPACT HIGH TEMPERATURE SQUID SYSTEM USED FOR NONDESTRUCTIVE INSPECTION OF AIRCRAFT Conductus, Inc.	Lanier Jr Joseph	N 06 25/01/93 \$74,999	WEINSTOCK 93-NE-167	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 3

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE	TOT AMT
TITLE (CONT.)	INVESTIGATOR	PROGRAM MANAGER	PROPOSAL #		
(C)RACS)(GADICS) SUPERLATTICE INFRARED DETECTOR BY CHEMICAL VAPOR DEPOSITION	Anton Greenwald	N 06 26/01/93 \$49,615	A POMRENKE 93-NE-177	349,615 01/07/93 \$49,615	
(S)SIR-93) VISIBLE AND INFRARED (1.54 um) LED BASED IN ER-DOPED SPOUS SI	Ferrydoon Farreydoon	N 06 26/01/93 \$72,746	A POMRENKE 93-NE-178	72,746 01/07/93 \$72,746	
JET VAPOR DEPOSITION OF RARE EARTH DOPED SiC AND SiC LAYERS	Gret Halpern	N 06 26/01/93 \$89,767	POMRENKE 93-NE-180		
RARE EARTH DOPED III-V SEMICONDUCTORS FOR OPTOELECTRONICS	Coon Microtronics Associates, Inc.	N 06 26/01/93 \$59,846	POMRENKE 93-NE-181		
LONG WAVELENGTH INFRARED DETECTORS, UTILIZING HJLES IN MULTIPLE QUANTUM WELL STRUCTURES	Mark Sherry	N 06 26/01/93 \$50,000	POMRENKE 93-NE-182		
ICVCD-PRODUCED (NDAC5)(GADICS) STRAINED LAYER SUPERLATTICE FOR INFRARED DETECTION	Karam Nasser	N 06 26/01/93 \$49,821	POMRENKE 93-NE-183		
FAIR INFRARED SUPERLATTICE DETECTORS	John Pike	N 06 26/01/93 \$63,142	POMRENKE 93-NE-184		
LOW NOISE QUANTUM WELL INFRARED DETECTORS	John Pike	N 06 26/01/93 \$63,720	POMRENKE 93-NE-185		
QUANTUM WELL AND SUPERLATTICE IR JETECTOR DEVELOPMENT	Harold Grubin	N 06 26/01/93 \$62,687	POMRENKE 93-NE-186		
Scientific Research Associates, Inc.					

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 4

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DESIGN OF N-TYPE Si(Si)-Si(Ge) QUANTUM WELL STRUCTURES FOR 3-DOT DETECTION BEYOND 12 MICRONS Microtronics Associates, Inc.	Shadrin Valeriy	N 06 26/01/93 \$55,049	POMRENKE 93-NE-167	
WAS/INXGAI-XSB STRAINED LAYER SUPERLATTICE INFRARED DETECTORS SENSITIVE TO WAVELENGTHS BEYOND 12 UM Structured Materials Industries (SMI)	Sun Co.	N 06 26/01/93 \$49,999	POMRENKE 93-NE-188	
QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT Physical Optics Corporation	Chin Robert	N 06 26/01/93 \$61,246	POMRENKE 93-NE-189	
QUANTUM WELL STRUCTURES FOR TUNABLE IR DETECTORS Electro-Optek Corporation	Huang C.	N 06 26/01/93 \$49,977	POMRENKE 93-NE-190	
SUPERLATTICE LWIR DETECTOR ARRAY Electro-Optek Corporation	Chan William	N 06 26/01/93 \$49,988	POMRENKE 93-NE-191	
HIGH SENSITIVITY OPTICAL MAGNETOMETER FOR NON-DESTRUCTIVE INSPECTION OF AIRCRAFT STRUCTURES Latra Inc.	Lintz Andrea	N 06 26/01/93 \$49,930	WEINSTOCK 93-NE-192	
IMPROVED SUSPENDED SiP SCADI AND ACLIN FILMS Linares Management Assoc. Inc. (LMARINC)	Linarez Robert	N 06 27/01/93 \$55,900	WITT 93-NE-193	
HIGH TEMPERATURE ACG(GAP/GAP) HETEROJUNCTION PIPOLAR TRANSISTOR BY PLANAR PROCESSING Astro Power Division/Astrosystems, Inc.	DiNatta Louis	N 06 27/01/93 \$84,768	WITT 93-NE-194	
Si(Ge) EPITAXY ON BUFFERED Si(111) FOR HIGH-TEMPERATURE ELECTRONICS Electro-Optek Corporation	Chow Y.	N 06 27/01/93 \$49,998	WITT 93-NE-195	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 5

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER # PROPOSAL #	PROGRAM MANAGER # PROPOSAL #
		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER # PROPOSAL #			
DIAMOND HIGH TEMPERATURE POWER TRANSISTORS Crystalline	Maurice Landstrass	N 06 27/01/93 \$69,332	WITT 93-NE-196			
IRON PHOSPHIDE SEMICONDUCTOR DEVICES FOR HIGH TEMPERATURE ELECTRONICS	Michael Squillante	N 06 27/01/93 \$58,585	WITT 93-NE-197			
A PHOTOTRANSISTOR BASED ON $\text{GaN}-\text{AlGaN}-\text{InN}$ HETEROSTRUCTURE IPA Optics Inc	M. Asif Khan	N 12 27/01/93 \$49,997	WITT 93-NE-198			
GROWTH AND CHARACTERIZATION OF WIDE BANDGAP SEMICONDUCTORS FOR HIGH TEMPERATURE ELECTRONICS Thin Film Concepts	Leslie Weissman	N 06 27/01/93 \$49,956	WITT 93-NE-199			
APPLICATION OF ZINC TLENDE SALLIUM NITRIDE TO HIGH TEMPERATURE ELECTRONICS Copin Corporation	Shastry Shambhu	N 06 27/01/93 \$50,000	WITT 93-NE-200			
LOW TEMPERATURE MEC GROWTH OF SILICON CARBIDE Advanced Technology Materials Inc.	Miller John	N 06 27/01/93 \$50,000	WITT 93-NE-201			
ZJSC SILICON CARBIDE SUBSTRATES Advanced Technology Materials Inc.	Yao Woo Sik	N 06 27/01/93 \$50,000	WITT 93-NE-202			
$\text{GaN}-\text{AlGaN}-\text{InN}$ HEIGHT CONTROLLED MULTIWAFER MOULD/CALE HYBRID TECHNIQUE Encore Corporation	Liu Hang	N 06 27/01/93 \$53,985	WITT 93-NE-203			
LOW TEMPERATURE GROWTH OF EPITAXIAL GALLIUM NITRIDE Briarose Corp. of America	Jagannathan G.	N 06 27/01/93 \$50,000	WITT 93-NE-204			

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 6

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	STATUS TOT ANT	INITIATE START DATE
HIGH TEMPERATURE TABLE SILICIDE CONTACTS TO SILICON CARBIDE Advanced Technology Materials Inc.	Tischler Michael	N 06 27/01/93 \$50,000	WITT 93-NE-205		
DEVELOPMENT OF THE EPITAXIAL GROWTH OF ZNGeON2 FOR HIGH TEMPERATURE JUNCTION TRANSISTORS Spire Corp.	Maruska H. Paul	N 06 27/01/93 \$60,034	WITT 93-NE-206		
EPITAXIAL GROWTH OF DIAMOND FILMS USING LOW ENERGY C-ION BEAM SURFACE MODIFICATIONS STRUCTURED MATERIALS INDUSTRIES (SMI)	Kin S. I.	N 06 27/01/93 \$49,993	WITT 93-NE-207		
DIAMOND HIGH TEMPERATURE POWER TRANSISTORS Crystalline	Landstrass Maurice	N 06 27/01/93 \$69,932	WITT 93-NE-208		
OPTICAL AND ELECTRONIC PROPERTIES OF SURFACE MATERIALS AND STRUCTURES IBM Thomas J. Watson Research Center	Northrop Gregory	N 36 27/01/93 \$631,388	POMRENKE 93-NE-210		
DOPED C3N FILM DEPOSITION BY LASER ABLATION AND RELATED TECHNIQUES Excel Superconductor, Inc.	Ganabathi Derek	N 06 28/01/93 \$50,000	WITT 93-NE-211		
EPITAXIAL GROWTH OF HIGH BANDGAP II-VI SEMICONDUCTOR FOR NEW ELECTRONIC MATERIALS Spectra Diode Laboratories, Inc.	Yao	N 06 28/01/93 \$69,764	WITT 93-NE-212		
(SBIR-93) DEVELOPMENT OF MATERIALS FOR SPECTRAL HOLE BURNING APPLICATIONS CRYSTAL SYSTEMS, INC.	Khattak Chandra	N 06 28/01/93 \$50,000	A CRAIG 93-NE-213	\$50,000 01/06/93 \$50,000	
SUPPORT FOR OPTICAL CIRCUITRY COOPERATIVE Jolt of Arizona	Pavashambiaran Nasser	N 12 04/02/93 \$50,000	A CRAIG 93-NE-214	\$50,000 15/02/93 \$50,000	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE - 7

TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	PROGRAM MANAGER	INITIATE START DATE TOT AMT
RESEARCH ON OTOELECTRONIC SYSTEMS AND DEVICES	Univ of Colorado	Gatney	N 06/02/93 \$50,000	A 93-NE-215	CRAIG	\$50,000 15/02/93
DEVELOPMENT OF A HTS SQUID GRADICMETER FOR THE DETECTION OF SUBSURFACE STRUCTURAL DEFECTS IN AIRCRAFT	Chester Midwest Superconductivity, Inc	Marvin	N 06/02/93 \$49,960	A 93-NE-216	WEINSTOCK	
DEVELOPMENT OF A HTS SQUID MAGNETOMETER FOR NONDESTRUCTIVE EVALUATION OF AIRCRAFT STRUCTURE	QMR Technologies, Inc	Paugh	N 06/02/93 \$75,650	A 93-NE-217	WEINSTOCK	
(SBIR-93) MATERIALS FOR SPECTRAL HOLE BURNING RESEARCH	Scientific Materials Corp	Hutchesson	N 06/02/93 \$50,000	A 93-NE-218	CRAIG	\$50,000 01/06/93
NEW MATERIALS FOR MEMORY APPLICATIONS	AALEM ASSOCIATES	Lapecki A.	N 06/02/93 \$50,000	A 93-NE-219	CRAIG	
NORMAL INCIDENCE INFRASUBBAND PHOTODAVERSION IN INAs/GaSb QUANTUM WELL INFRARED PHOTODETECTOR STRUCTURES	Si4 MicroFab Inc	Chen	N 06/02/93 \$74,834	A 93-NE-220	POMRENKE	
QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT	Vetrologic, Inc	Johnson	N 06/02/93 \$50,000	A 93-NE-221	POMRENKE	
QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT	Innovative Technology Enterprise	Karunasiri Gamanil	N 06/02/93 \$69,510	A 93-NE-222	POMRENKE	
CSISTR PHASE II INFRARED DETECTORS BASED ON Si/SiGe SUPERLATTICES AND SILICIDE/SiGe SCHOTTKY BARIERS OPERATING BEYOND 12 MICRONS	V.S. 3-LD		N 06/02/93 \$49,920	A 93-NE-223	POMRENKE	
						\$49,620 01/07/93
						\$49,820

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 8

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	PROGRAM MANAGER	INITIATE START DATE TOT AMT
					AMOUNT
FABRICATION OF HIGH-DETECTIVITY FAR INFRARED CO WITH MBE GROWN IN ASX; 31-X/INHASD; 4500,6 SSL ON 1M53 IL Vacuum & Semiconductor Corp Lu	Hamilton	N 06 05/02/93 \$45,884	POMRENKE 93-NE-224		\$49,663 01/07/93 \$49,663
(SSIR PHASE II) QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT Superior Vacuum Technology, Inc	Peter Chow	N 06 05/02/93 \$49,663	A POMRENKE 93-NE-225		\$49,663 01/07/93 \$49,663
RARE EARTH DOPED DIAMOND SEMICONDUCTORS S.I. Diamond Technologies, Inc	Jamison Keith	N 06 05/02/93 \$51,161	POMRENKE 93-NE-226		
EPITAXIAL GROWTH OF HIGH TEMPERATURE, ELECTRONIC GRADE ALN develin (J A) Company	Yeyer Duane	N 06 05/02/93 \$50,000	WITT 93-NE-227		
AlGaN BANDGAP SEMICONDUCTORS FOR HIGH TEMPERATURE ELECTRONICS Optical Concepts, Inc	Robinson Gerald	N 06 05/02/93 \$49,998	WITT 93-NE-228		
LARGE AREA SINGLE CRYSTAL CJASIC ALGaN NITRIDE GROWTH FOR DEVICE DEVELOPMENT S.I. Diamond Technologies, Inc	Jamison Keith	N 06 05/02/93 \$51,554	WITT 93-NE-229		
NOVEL METHOD FOR GROWTH OF P/N TYPE EPITAXIAL GaN FOR HIGH TEMPERATURE ELECTRONIC DEVICE APPLICATIONS Y2 Applied Technologies	Norris Peter	N 06 05/02/93 \$64,903	A WITT 93-NE-230		\$64,903 15/07/93 \$64,903
P-TYPE DOPANTS FOR SILICON CARBIDE SEMICONDUCTORS Implant Sciences Corporation	Bunker S.	N 06 05/02/93 \$73,393	WITT 93-NE-231		
AlGaInN BANDGAP SEMICONDUCTORS FOR HIGH TEMPERATURE ELECTRONICS AlGaInN GROWTH BY JET ASSISTED SEPARATION FOR HIGH TEMP ELEC Superior Vacuum Technology, Inc	Van Hove James	N 06 05/02/93 \$49,116	WITT 93-NE-232		

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 9

TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
INSTITUTION		AMOUNT	PROPOSAL #			
DEVELOPMENT OF N-CHANNEL, INVERSION-MODE HOSPETS IN BETA-SIC Apoldyn Corporation	Rawbaugh	N 06 05/02/93 \$50,000	WITT 93-NE-233			
EXTRACTATION OF HIGH TEMPERATURE MOSFET USING ABE GROWN C60/AlOx IL Vacuum & Semiconductor Corp	Lu	N 06 05/02/93 \$45,884	WITT 93-NE-234			
LPCVD AND ALE GROWTH OF B-V SEMICONDUCTORS FOR HIGH TEMPERATURE ELECTRONICS Light Edge	Ahmed	N 06 05/02/93 \$65,950	WITT 93-NE-235			
THE NON-LINEAR OPTICS OF BESSSEL, BESSEL-GAUSS & BESSEL-LIKE BEAMS Pennsylvania State University	Herman	N 24 08/02/93 \$91,187	D SCHLOSSBER 93-NE-236			
DEVELOPMENT AND APPLICATIONS OF CASCADED GAAS-BASED OEIC SIGNAL PROCESSORS Massachusetts Institute of Technology	Wardle	N 36 08/02/93 \$916,486	CRAIG 93-NE-237			
SYNTHESIS AND CHARACTERIZATION OF CuJ-BASED SUPERCONDUCTORS WITH HIGH TRANSITION TEMPERATURES Dayne State University	Weniger	N 36 19/02/93 \$150,000	A WEINSTOCK 93-NE-238			\$50,000
SEARCH FOR HIGHER TEMPERATURE SUPERCONDUCTORS IBM Almaden Research Center	Torrance	N 36 19/02/93 \$300,000	A WEINSTOCK 93-NE-239			\$100,000
SEARCH FOR HIGHER-TEMPERATURE SUPERCONDUCTORS BY NOVEL APPROACHES Jhuw of Houston	Chu	N 36 22/02/93 \$300,000	A WEINSTOCK 93-NE-240			\$100,000
DISCOVERING SUPERCONDUCTING MATERIALS AT HIGH TEMPERATURES Cornell University	DiSalvo	N 36 22/02/93 \$300,000	A WEINSTOCK 93-NE-241			\$100,000

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 33 - 31 MAR 93)
AFIP FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 10

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
EXPLORATORY SYNTHESIS EMPLOYING UNUSUAL SYNTHESIS APPROACHES	Sleight	N 36 22/02/93 \$150,000	A WEINSTOCK 93-NE-242	\$49,985 01/06/93 \$150,000
GENERALIZED TIGHT-BINDING MOLECULAR DYNAMICS OF SEMICONDUCTOR CLUSTERS, CRYSTALS, AND SURFACES	Kumble	N 36 23/02/93 \$296,922	POMRENKE 93-NE-243	
(SBIR) QUANTUM WELL LONG WAVELENGTH INFRA-RED DETECTORS USING III-V MATERIALS ON SILICON SUBSTRATES	Jarus	N 06 23/02/93 \$10,000	D SCHLOSSBER 93-NE-244	
1993 ACS/OSA TOPICAL MEETING ON ORGANIC THIN FILMS FOR PHOTONIC APPLICATIONS	Chundi	N 06 25/02/93 \$49,800	POMRENKE 93-NE-245	
1993 INFORMATION PROCESSING IN MEDICAL IMAGING MEETING (IPMI)	Harrison	N 04 01/03/93 \$10,000	A CRAIG 93-NE-246	\$10,000 01/06/93 \$10,000
PRECISE TIME AND TIME INTERVAL APPLICATIONS AND PLANNING MEETING	Raymond	N 07 01/03/93 \$5,750	A KELLEY 93-NE-247	\$5,750 01/03/93 \$5,750
HIGH EFFICIENCY FREQUENCY DOUBLERS USING SINGLE-MODE POLYMER OPTICAL CAVES	Yuzek	N 36 01/03/93 \$162,787	SCHLOSSBER 93-NE-248	
RESEARCH IN OPTOELECTRONIC SYSTEMS AND DEVICES	W. Thomas	N 12 05/03/93 \$50,000	CRAIG 93-NE-249	
(SDI/SBIR) SUPERCONDUCTOR MAGNETIC MEMORY	Cathey	N 06 05/03/93 \$175,000	A WEINSTOCK 93-NE-250	\$75,000 01/07/93 \$75,000
Advanced Technology Materials Inc.	Steinbeck			

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SDI/SBIR) SUBMILLIMETER JUASIOPTICAL JOSEPHSON JUNCTION OSCILLATOR WITH INTEGRATED TUNING ELEMENTS Conductus, Inc.	Pance Aleksandar	N 06 05/03/93 \$74,981	A WEINSTOCK 93-NE-251	\$74,981 01/07/93 \$74,981
(SDI/SBIR) HIGH TEMPERATURE SUPERCONDUCTING JOSEPHSON JUNCTION ARRAY SYSTEMS Conductus, Inc.	Vartens Jon	N 06 05/03/93 \$49,988	A WEINSTOCK 93-NE-252	\$49,988 01/07/93 \$49,988
(SDI/SBIR) CHALCOGENIDE SUPERCONDUCTORS -- A SEARCH DyoPower Associates	Laquier Henry	N 06 09/03/93 \$79,958	A WEINSTOCK 93-NE-253	\$49,958 01/07/93 \$49,958
(SDI/SBIR) HTS FLUX FLOW TRANSISTOR DEVELOPMENT Parkview Research & Development Inc	Hohenzaarter Gert	N 06 09/03/93 \$74,985	A WEINSTOCK 93-NE-254	\$74,985 01/07/93 \$74,985
MICROELECTRONICS AND MATERIALS RESEARCH EQUIPMENT Univ of Texas	Heissner H.	N 12 12/03/93 \$6,000,000	A HITI 93-NE-255	\$6,000,000 15/06/93 \$6,000,000
AN INVESTIGATION ON RECONFIGURABLE OPTICAL MEMORY Rutgers, The State University	Varrocca Miles	N 12 16/03/93 \$49,539	A CRAIG 93-NE-256	\$25,000 05/04/93 \$25,000
SMART OPTICAL MEMORY SRI International	Yacoubi Zaynudin	N 36 16/03/93 \$1,199,914	A CRAIG 93-NE-257	\$61,000 01/06/93 \$132,000
JSEP FELLOWSHIP Massachusetts Institute of Technology	Allen Jonathan	N 36 17/03/93 \$132,000	A SMITH 93-NE-258	\$20,850 01/07/93 \$59,150
JSEP FELLOWSHIP Harvard University	Rinchin Michael	N 36 19/03/93 \$53,150	A SMITH 93-NE-259	\$20,850 01/07/93 \$59,150

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 12

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
JSEP FELLOWSHIP	Jenkins Kenneth	N 36 19/03/93 \$89,458	A SMITH 93-NE-260	\$44,647 01/06/93 \$89,458
Jivv of Illinois				
(AASERT-93) INVESTIGATION OF THE LATERAL LIMITS OF GAS IMMERSION LASER DOPING	Thomas Signon	N 36 22/03/93 \$150,760	WITT 93-NE-261	
Jivv Graduate Institute				
(AASERT-93) STUDIES OF LATTICE-MISMATCHED & LOW-TEMPERATURE-GROWN SEMICONDUCTOR MULTIPLE-PHASE SYSTEMS	John Smith	N 36 22/03/93 \$162,030	WITT 93-NE-262	
Jivv of California, Berkeley				
(AASERT-93) FIELD-EFFECT-CONTROLLED, COULOMB-BLOCKADE SINGLE-ELECTRON TRANSISTOR IN SILICON	Dimitri Antoniadis	N 36 22/03/93 \$228,270	WITT 93-NE-263	
Massachusetts Institute of Technology				
(AASERT-93) MULTI-STATE QUANTUM STORAGE DEVICES	Edward Powers	N 36 22/03/93 \$100,685	WITT 93-NE-264	
Jivv of Texas				
(AASERT-93) APPLICATION OF WAVELETS TO ELECTROMAGNETICS	Edward Powers	N 36 22/03/93 \$100,685	SMITH 93-NE-265	
Jivv of Texas				
(AASERT-93) MILLIMETER WAVE SOURCE USING A PHASE MATCHED NON-LINEAR MULTIPLE QUANTUM WELL OPTICAL GUIDE	Kang Wang	N 36 22/03/93 \$130,459	SMITH 93-NE-266	
Jivv of California, Los Angeles				
(AASERT-93) IMPLEMENTATION OF THE CNN UNIVERSAL CHIP	Hu Chenming	N 36 22/03/93 \$190,679	SMITH 93-NE-267	
Jivv of California, Berkeley				
(AASERT-93) COLLISIONS OF ATMOSPHERIC GAS MOLECULES	Lin Chun	N 36 22/03/93 \$200,269	KELLEY 93-NE-268	
Jivv of Wisconsin				

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 13

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT		STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		TYPE	MONTHS		
CAASERT-93) ATOMIC BEAM COOLING WITH LASER RADIATION Florida International University	Kenneth Hardy	N	36 22/03/93 \$130,566	KELLEY 93-NE-269	
CAASERT-93) LASER COOLING OF NEUTRAL ATOMS State University of New York	Harold Metcalf	N	36 22/03/93 \$127,209	KELLEY 93-NE-270	
CAASERT-93) ELECTRON IMPACT IONIZATION AND DISSOCIATION OF MOLECULES USED IN PLASMA ETCHING AND DEPOSITION OF SEMICONDUCTORS California Institute of Technology	Vincent McKee	N	36 22/03/93 \$141,464	KELLEY 93-NE-271	
CAASERT-93) EXPERIMENTAL STUDIES OF PLASMA TURBULENCE Massachusetts Institute of Technology	Lee Min-Chang	N	36 23/03/93 \$313,825	BARKER 93-NE-272	
CAASERT-93) MICROWAVE ABSORPTION AND REFLECTION FROM ULTRAVIOLET LASER AND ELECTRON CYCLOTRON RESONANCE PRODUCED PLASMAS Univ of Wisconsin	Scharer John	N	36 23/03/93 \$170,373	BARKER 93-NE-273	
CAASERT-93) COMPUTATIONAL/EXPERIMENTAL STUDIES OF SHEET ELECTRON FLAMES CONFINED BY PERIODICALLY-CUSPED MAGNETIC FIELDS Univ of Wisconsin	Jones John	N	36 23/03/93 \$263,300	BARKER 93-NE-274	
CAASERT-93) HIGH POWER TWBT RESEARCH Cornell University	Vatton John	N	36 23/03/93 \$219,762	BARKER 93-NE-275	
CAASERT-93) LARGE SIGNAL CHARACTERIZATION AND MODELING OF INP-9ASE D-WELL-EJUNCTION TRANSISTORS Lehigh University	Wang James	N	36 23/03/93 \$236,430	POMRENKE 93-NE-276	
CAASERT-93) HIGH POWER, HIGH FREQUENCY RADIATION FROM REA&PLASMA INTERACTION Univ of California, Irvine	Irvine Sanford Gregory	N	36 23/03/93 \$155,827	BARKER 93-NE-277	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 14

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	STATUS POMRENKE 93-NE-279
		N	36 23/03/93 \$101,445 BARKER 93-NE-278			
(AASERT-93) QUANTUM PROCESSES FOR INFRARED DETECTION IN SILICON- BASED HETEROSTRUCTURES Princeton University	Paul Cutler			N 36 23/03/93 \$128,200 BARKER 93-NE-279	POMRENKE 93-NE-279	
(AASERT-93) STUDENT SUPPORT FOR CARBIDE SURFACE STUDIES Kingsfield Research Institute	James Sturm			N 36 23/03/93 \$105,120 BARKER 93-NE-280	POMRENKE 93-NE-280	
(AASERT-93) DEVELOPMENT OF ELECTRONIC DEVICES AND DEVICE PROCESSING IN TECHNOLOGY IN 6H-SiC AND B-SiC Oregon Graduate Institute of Sci & Tech	James Parsons			N 36 23/03/93 \$233,660 BARKER 93-NE-281	POMRENKE 93-NE-281	
(AASERT-93) REQUEST FOR ADDITIONAL GRADUATE STUDENT SUPPORT FOR STUDIES OF PLASMA LOADED BACKWARD WAVE OSCILLATORS Univ of Maryland	Victor Granatstein			N 36 23/03/93 \$221,948 BARKER 93-NE-282	POMRENKE 93-NE-282	
(AASERT-93) MODE LOCKING IN OPEN AND CLOSED CAVITY LASERS Univ of Southern California	Alan McCurdy			N 36 23/03/93 \$148,900 BARKER 93-NE-283	POMRENKE 93-NE-283	
(AASERT-93) AGM CHARACTERIZATION AND AUGMENTATION Univ of Dayton	Dario John			N 36 23/03/93 \$129,468 BARKER 93-NE-284	POMRENKE 93-NE-284	
(AASERT-93) OPTIMIZATION OF HIGH SPEED/DIAGN FREQENCY OPERATION OF VERTICAL CAVITY SURFACE EMITTING LASERS	Lester Eastman			N 36 23/03/93 \$169,130 CRAIG 93-NE-285	CRAIG 93-NE-285	
(AASERT-93) ELECTRICAL PROPERTIES OF dLUE LASER DIODES Purdue University	Robert Gunshor			N 36 23/03/93 \$149,980 POMRENKE 93-NE-286	POMRENKE 93-NE-286	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AASERT-93) ADDITIONAL STUDIES OF EXTREMELY HIGH FREQUENCY ELECTRO-OPTIC MODULATORS AND THEIR APPLICATIONS	ELECTRO- California Institute of Technology 3 Bridges	N 36 23/03/93 \$136,042	CRAIG 93-NE-287	
(AASERT-93) AASERT/LINGAALP VISIBLE SURFACE EMITTING LASERS	William Arizona State University Maracas	N 36 23/03/93 \$146,623	POMRENKE 93-NE-288	
(AASERT-93) NOVEL OPTICAL DEVICES FABRICATED ON THE UNCONVENTIONAL CHI-LI SAAS AND INP SURFACES	Tom Univ of Virginia	N 36 23/03/93 \$211,510	CRAIG 93-NE-289	
(AASERT-93) FPR INVESTIGATIONS OF MICROSCOPIC ORIGIN OF PHOTOREFRACTIVE EFFECT TRANSITION METAL DOPED SBN AND BSO	Venkateswarlu Alabama A&M University	N 36 23/03/93 \$120,942	CRAIG 93-NE-290	
(AASERT-93) EPITAXIAL METALLIZATIONS FOR III-N SEMICONDUCTORS	Elias Univ of Minnesota Cohen	N 36 23/03/93 \$134,282	POMRENKE 93-NE-291	
(AASERT-93) HOLOGRAPHIC STUDY OF AERONICS	Ryszard Rensselaer Polytechnic Institute Przybyszewicz	N 36 23/03/93 \$414,582	CRAIG 93-NE-292	
(AASERT-93) SILICON GERMANIUM ALLOY HETEROSTRUCTURES FOR OPTOELECTRONICS	Lionel Massachusetts Institute of Technology Kimerling	N 36 23/03/93 \$332,088	POMRENKE 93-NE-293	
(AASERT-93) PROPOSED ELECTRONIC IMPLEMENTATION OF ATM NETWORK PROTOCOLS	Kianilev Univ of North Carolina Fouad	N 36 23/03/93 \$97,732	CRAIG 93-NE-294	
(AASERT-93) RARE-EARTH ARSENIDE/Semiconductor HETEROSTRUCTURES: INTERNAL PHOTOEMISSION FROM SEMI-METAL QUANTUM WELL	S. James Univ of California, Santa Barbara Allen	N 36 23/03/93 \$149,040	POMRENKE 93-NE-295	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

TITLE INSTITUTE	TITLE (CONT.) INVESTIGATOR	INITIATE TOT ANT		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	START DATE
CAASERT-93) HOLOGRAPHIC ASSOCIATIVE MEMORIES FOR DATABASE PROCESSING Colorado State University	Wittes	Particless		N 36 23/03/93 \$109,960	CRAIG 93-NE-296	
CAASERT-93) LIGHT EMITTING POROUS SILICON STRUCTURES Univ of Texas	Kaono	Dini-Lee		N 36 23/03/93 \$89,484	POMRENKE 93-NE-297	
CAASERT-93) STUDENT SUPPORT FOR MBE RESEARCH IN OPTOELECTRONICS Colorado State University	Robinson	Gary		N 36 23/03/93 \$130,000	POMRENKE 93-NE-298	
CAASERT-93) CASCADING OF SECOND ORDER NONLINEARITIES: A NEW ROUTE TO OPTICAL PROCESSING Univ of Central Florida	Stegeman	George		N 36 23/03/93 \$135,000	CRAIG 93-NE-299	
CAASERT-93) RESEARCH IN MICRO-CAVITY SURFACE EMITTING LASER DIODES Univ of California, Berkeley	Smith	John		N 36 23/03/93 \$162,030	CRAIG 93-NE-300	
CAASERT-93) PROPERTIES OF WIDE BANDGAP SEMICONDUCTORS THAT AFFECT PERFORMANCE OF UV DETECTORS AND LEDs Univ of Pittsburgh	Choyke	Wolfgang		N 36 23/03/93 \$94,399	POMRENKE 93-NE-301	
CAASERT-93) RESEARCH IN MICRO-CAVITY SURFACE EMITTING LASER DIODES Univ of California, Berkeley	Lau	Yan		N 36 23/03/93 \$162,030	CRAIG 93-NE-302	
CAASERT-93) PHOTOREFRACTION AS A DIAGNOSTIC TOOL FOR COMPOUND SEMICONDUCTOR Univ of Arkansas	Sallam	Gregory		N 36 23/03/93 \$152,847	POMRENKE 93-NE-303	
CAASERT-93) DYNAMICS OF ANTI-JUDED LASER ARRAYS Univ of Michigan	Winfel	Herbert		N 36 23/03/93 \$102,049	CRAIG 93-NE-304	

TYPE OF GRANT	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
GRANT-33) INSTITUTION Univ of Minnesota	John	N 36 23/03/93 \$134,232	POMRENKE 93-NE-305	
GRANT-33) INSTITUTION Univ of Southern California	Keith Jenkins	N 36 23/03/93 \$127,642	CRAIG 93-NE-306	
GRANT-33) INSTITUTION Univ of Notre Dame	D. Holtzman	N 36 23/03/93 \$202,823	POMRENKE 93-NE-307	
GRANT-33) INSTITUTION Univ of Colorado	Kenneth Daniels	N 36 23/03/93 \$149,981	WEINSTOCK 93-NE-308	
GRANT-33) INSTITUTION Rensselaer Polytechnic Institute	James Jidao	N 36 23/03/93 \$66,121	WEINSTOCK 93-NE-309	
GRANT-33) INSTITUTION Univ of Rochester	Roman Tadeusz	N 36 23/03/93 \$122,307	WEINSTOCK 93-NE-310	
GRANT-33) INSTITUTION Univ of Illinois	Julian Ellen	N 36 23/03/93 \$142,329	WEINSTOCK 93-NE-311	
GRANT-33) INSTITUTION Univ of Delaware	James Gledhill	N 36 23/03/93 \$150,523	POMRENKE 93-NE-312	
GRANT-33) INSTITUTION Univ of Michigan	Sidney J. Urlich	N 36 23/03/93 \$154,640	WEINSTOCK 93-NE-313	

TITLE INSTITUTION	INVESTIGATOR	INITIATE RECEIVED		TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	START DATE TOT AMT
		AMOUNT	PROPOSAL #			
CAASERT-93) NONDESTRUCTIVE METHODS FOR EVALUATING DAMAGE EVOLUTION AND MATERIALS BEHAVIOR IN METAL MATRIX COMPOSITES Univ of Dayton	Prasanna Carroll	N 36 23/03/93 \$167,167	A WEINSTOCK 93-NE-314			\$150,000 01/08/93 \$150,000
CAASERT-93) NEW MATERIALS FOR ELECTRONIC APPLICATIONS Oregon State University	Talantur Arthur	N 36 23/03/93 \$150,000	A WEINSTOCK 93-NE-315			\$150,000
CAASERT-93) CORRELATION OF MICROSTRUCTURE AND OPTICAL PROPERTIES OF INANAL MATERIALS FOR OPTOELECTRONIC APPLICATIONS Michigan State Univ, Coll. of Arts & Sci	Jin-Joo Song	N 36 23/03/93 \$109,500	A POMRENKE 93-NE-316			
CAASERT-93) CERAMISTY AND PHYSICS OF THE FILM LINES Temple University	Martinez Lebas	N 36 23/03/93 \$190,261	A WEINSTOCK 93-NE-317			
CAASERT-93) APPLICATIONS OF STM AND AFM TO SURFACE STRUCTURES Inst of Phys	Lozanne de	N 36 23/03/93 \$149,613	A WEINSTOCK 93-NE-318			\$149,613 01/08/93 \$149,613
CAASERT-93) SEMICONDUCTOR HETEROEPITAXY AND CHARACTERIZATION FOR HIGH TEMPERATURE ELECTRONICS Georgia Institute of Technology	Korotomik Nerak	N 36 23/03/93 \$149,613	A WEINSTOCK 93-NE-319			
CAASERT-93) SUPERCONDUCTING MICRON-STRUCTURES FOR THE DEVELOPMENT AND CHARACTERIZATION OF HIGH-TEMP SUPERCONDUCTORS Inst of Tech	Conesa Man	N 36 23/03/93 \$251,517	A WEINSTOCK 93-NE-320			
CAASERT-93) POLYGLASS SEMICONDUCTOR STRUCTURES FOR INTEGRATED APPLICATIONS Illinois University	Feng Hao	N 36 23/03/93 \$153,337	A POMRENKE 93-NE-321			
CAASERT-93) ORGANIC SUPERCONDUCTORS IN HIGH MAGNETIC FIELDS Clark University	Ajose Charles	N 36 23/03/93 \$74,688	A WEINSTOCK 93-NE-322			

PROPOSAL STATUS REPORT (A JAN 93 - 31 MAR 93)
 II. SOURCE OF FEE SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 19

FILE #	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE
			AMOUNT	PROGRAM MANAGER	TOT AMT
CAASERT-93) HIGH RESOLUTION RADIO USE OF MAGNETIC AND NON-MAGNETIC COMPONENTS	John Takao	A 36 23/03/93 \$149,975	WEINSTOCK 93-NE-323		
Vanderbilt University					
CAASERT-93) SIGNIFICATIVE AND SIZE SEMICONDUCTOR CRYSTAL AND LISE)	Stephen Forrest	N 36 23/03/93 \$173,177	POMRENKE		
TELEPOJUNCTURES Princeton University					
CAASERT-93) SPATIALLY-RESOLVED SPECTROSCOPY AND IMAGING OF MAGNETIC MICROSTRUCTURES	David Aschkenas	N 36 23/03/93 \$150,000	A WEINSTOCK 93-NE-324		
Univ of California, Santa Barbara					
CAASERT-93) THE MECHANISM FOR SCANNING THERMAL PROFILING OF CYCLOPARED EMISSIONS FROM SOLIDS	Thomas Sullivan	N 36 23/03/93 \$147,714	WEINSTOCK 93-NE-325		
Fordham University					
CAASERT-93) SYNTHESIS AND CHARACTERIZATION OF Novel FULLERENE COMPOUNDS	Jia-Li He	A 36 23/03/93 \$131,911	WEINSTOCK 93-NE-327		
Univ of California, Davis					
CAASERT-93) DESIGN, FABRICATION AND RESEARCH IN STM METHODS FOR CARBONIZATION OF NANOSCALE SUPERCONDUCTOR ELECTRON DEVICES	Li-Jia Liu	N 36 23/03/93 \$309,565	WEINSTOCK 93-NE-328		
Georgia Institute of Technology					
CAASERT-93) DEVELOPMENT OF A STYLUS APPROX 10-4	Kohli	A 36 23/03/93 \$157,609	WEINSTOCK 93-NE-329		
Georgia Institute of Tech					
CAASERT-93) DESIGN OF ULTRASCALE TUNNEL JUNCTIONS AND SYSTEMS	Likharev	N 36 23/03/93 \$132,651	WEINSTOCK 93-NE-330		
State University of New York	Konstantin				
CAASERT-93) DEVELOPMENT AND APPLICATION OF LASER DIAGNOSTICS OF LIGHT EMISSION: ATOMIC PLASMA IN THE HOSTILE ENVIRONMENTS	Terry Miller	N 36 23/03/93 \$199,425	SCHLOSSBER 93-NE-331		
State University					

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE DATE	START DATE
TITLE	TITLE (CONT.)	INVESTIGATOR	RECEIVED	AMOUNT	PROPOSAL #		
CAASERT-33) FOCUSING-EFFECTS ON OPTICAL SURFACES FOR SEMICONDUCTOR LASERS	OPTICAL SURFACES	N 36 23/03/93 \$179,424			SCHLOSSBER 93-NE-332	\$40,928 15/09/93	\$40,928
CAASERT-33) Graduate Institute	Richard DeFreeze						
CAASERT-33) INFLUENCE OF THIN FILM GROWTH CONDITIONS ON SURFACE SMOOTHNESS - Direct Elec & Computer Eng	Jameson Peter	N 12 23/03/93 \$40,929			DITI A 93-NE-333	\$40,928	
CAASERT-33) INFLUENCE OF HIGH EFFICIENCY DIODE JUMPED 2.1 MICRON LASER	Kushnareva Vikram	N 36 23/03/93 \$120,675			SCHLOSSBER 93-NE-334		
CAASERT-33) INFLUENCE OF HIGH EFFICIENCY DIODE JUMPED 2.1 MICRON LASER	Lester Lester	N 36 23/03/93 \$169,130			SCHLOSSBER 93-NE-335		
CAASERT-33) INFLUENCE OF HIGH EFFICIENCY DIODE JUMPED 2.1 MICRON LASER	Kushnareva Vikram	N 36 23/03/93 \$120,775			SCHLOSSBER 93-NE-336		
CAASERT-33) INFLUENCE OF HIGH EFFICIENCY DIODE JUMPED 2.1 MICRON LASER	Li-Cheng Li	N 36 23/03/93 \$257,331			SCHLOSSBER 93-NE-337		
CAASERT-33) INFLUENCE OF HIGH EFFICIENCY DIODE JUMPED 2.1 MICRON LASER	Antony Anton	N 36 23/03/93 \$114,563			SCHLOSSBER 93-NE-338		
CAASERT-33) INFLUENCE OF HIGH EFFICIENCY DIODE JUMPED 2.1 MICRON LASER	Robert Holliearth	N 36 23/03/93 \$119,714			SCHLOSSBER 93-NE-339		
CAASERT-33) INFLUENCE OF HIGH EFFICIENCY DIODE JUMPED 2.1 MICRON LASER	Margaret Hartmane	N 36 23/03/93 \$94,902			SCHLOSSBER 93-NE-340		

PAGE 21

PROGRESS REPORT (6-1 JAN 93 - 31 MAR 93)
FOR FEBRUARY 1993
INSTITUTE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 22

TITLE (CONT.)	INVESTIGATOR	TYPE	MONTHS RECEIVED	STATUS	INITIATE		TOT AMT
					ACOUNT	PROGRAM MANAGER #	
CENTER-PHASE II: INGANIC/TRANSISTOR INTERCONNECTIONS	Jones	N	24 25/03/93 \$499,644	POMRENKE 93-NE-350			
Santa Barbara Focalplane		N	24 25/03/93 \$519,631	POMRENKE 93-NE-351			
CENTER-PHASE II: HIGH-TEMPERATURE SUPERCONDUCTORS	Zouo	N	24 25/03/93 \$499,959	POMRENKE 93-NE-352			
OPTOELECTRONICS	Victorini	N	24 25/03/93 \$499,959	POMRENKE 93-NE-353			
Microtronics Associates, Inc.		N	24 25/03/93 \$499,959	POMRENKE 93-NE-354			
SECOND-PHASE II: HIGH-ALUMINA LASER HETEROSTRUCTURE FET EFFECT TRANSISTOR DEVICES FOR HIGH TEMPERATURE (300 C) ELECTRONICS	Kenan	N	12 25/03/93 \$159,394	WITT 93-NE-355			\$90,000 15/07/93 \$159,994
APA Optics Inc.		N	12 25/03/93 \$159,394	WITT 93-NE-356			
CENTER-PHASE II: OPEN QUANTUM WELL LASERS	Greenwald	N	24 25/03/93 \$499,644	KELLEY 93-NE-357			
Solid Corporation	Inton	N	24 25/03/93 \$499,644	KELLEY 93-NE-358			
AND GAP / LSSC COMPENSATION IN A STATE SYSTEM	Taylor	N	24 25/03/93 \$499,644	KELLEY 93-NE-359			
Arizona State University	James	N	24 25/03/93 \$499,644	KELLEY 93-NE-360			
CDR-24430-1: CONTACT ACTIVATED HYDROGEN NMR		N	36 25/03/93 \$407,565	KELLEY 93-NE-361			
Physical Sciences Inc.	David	N	36 25/03/93 \$407,565	KELLEY 93-NE-362			
CAVITY-BASED THREE-DIMENSIONAL POLYACRYLIC ACID		N	36 25/03/93 \$407,565	KELLEY 93-NE-363			
ARCHITECTURE-2: CORNELL UNIVERSITY	McDonald	N	36 25/03/93 \$407,565	KELLEY 93-NE-364			
SECTION 1-1: LASER MICROTECHNICAL ENGINEERING		N	36 25/03/93 \$407,565	KELLEY 93-NE-365			
AIR -- Lincoln Lab	Dorlich	N	36 25/03/93 \$407,565	KELLEY 93-NE-366			
ALGAL-24431-2: AEROSOL PROCESSING AND SURFACE TECHNOLOGIES FOR HIGH SPECIFIC CAPACITIES		N	24 25/03/93 \$539,971	WITT 93-NE-367			\$185,000 15/07/93 \$599,971
Macmillan Inter., Laser-Electro. Center	John	N	24 25/03/93 \$539,971	WITT 93-NE-368			

PROPOSAL STATUS REPORT (1 JULY 19 - 31 MAY 93)
 FEDERAL GOVERNMENT SCIENTIFIC RESEARCH
 DIRECTORATE FOR ELECTRONIC AND MATERIAL SCIENCES

TITLE TITLE NUMBER INVESTIGATOR	TYPE ANALYTICAL INSTRUMENTS DEVICES LITERATURE	INVESTIGATOR INVESTIGATOR INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
93-07-133) PHYSICS BASED ANALYTICAL INSTRUMENT DEVICES Info University			N 36 25/03/93 \$99,307	WITT 93-NE-359	\$150,000 01/07/93
93-07-133) NONSTRUCTURAL INTEGRATION AND CARACTERIZATION OF STRUCTURE IN AIRCRAFT Info States University			N 36 30/03/93 \$650,000	A WEINSTOCK 93-NE-360	\$450,000
93-07-133) THERMAL IMAGE IMAGING FOR USE IN HIGH RESOLUTION IN VOCAL CORDIMENTS Info State University			N 36 30/03/93 \$270,000	A WEINSTOCK 93-NE-361	\$90,000 01/07/93 \$270,000

REPORT DATE 04/13/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF EDUCATION, ACADEMIC AND INDUSTRY AFFAIRS

PAGE 1

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
UNITED STATES AIR FORCE SUMMER RESEARCH PROGRAMS Competitive Sourcing		N 12 13/01/93 \$8,040.000	A RHOADS 93-NI-012	\$14,000 30/09/93 \$8,012,000
INTERNATIONAL SCIENCE LECTURE SERIES Office of Naval Research		N 45 14/01/93 \$50,000	A ZARBO 93-NI-013	\$50,000 11/01/93 \$50,000
NATIONAL DEFENSE SCIENCE AND ENGINEERING GRADUATE (NDSEG) FELLOWSHIP IP PROGRAM Iray Research Office		N 07 25/01/93 \$59,146	A CAVENDER 93-NI-014	\$59,146 01/03/93 \$59,146
EVOLUTION OF SOLAR ACTIVE REGIONS Armstrong Laboratory		N 03 26/01/93 \$10,900	A BOLAND 93-NI-015	\$10,900 10/02/93 \$10,900
FIRST PRINCIPLES QUANTUM MECHANICAL MODELING OF EXCITED STATES IN CONJUGATED OLIGOMERS BY AS INITIOT METHODS AND APPLICATIONS *** Armstrong Laboratory		N 06 26/01/93 \$21,737	A BOLAND 93-NI-016	\$21,737 15/03/93 \$21,737
CONCENTRATION AND DISPERSAL OF SOLAR MAGNETIC FIELDS BY MESOGRANUL 12 CONVECTION Armstrong Laboratory		N 06 03/03/93 \$24,500	A BOLAND 93-NI-017	\$12,800 15/14/93 \$24,500
A COMPREHENSIVE STUDY OF THE AERODYNAMICS OF WAKE AROUND FINS USIN J EXPERIMENTAL AND COMPUTATIONAL TECHNIQUES Armstrong Laboratory		N 03 03/03/93 \$12,600	A BOLAND 93-NI-018	\$12,600 13/03/93 \$12,600
100%-SELECTIVE ION-MOLECULE CHEMISTRY Phillips Lab - Geodynamics Directorate DRESSLER		N 02 03/03/93 \$9,750	A BOLAND 93-NI-019	\$9,750 16/05/93 \$9,750

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

TITLE	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE
TITLE (CONT.)	AMOUNT	PROGRAM PROPOSAL #	TOT AMT
INSTITUTION			
NEUROMODULATION OF ELECTROPHYSIOLOGICAL INDICES OF COGNITION	N .6 05/01/93 \$907,213	A HADDAD 93-NL-081	\$144,905 30/09/93 \$540,000
Univ of California, San Diego			
STRESS-INDUCED ENHANCEMENT OF THE STARTLE RESPONSE	R .6 36/01/93 \$753,239	A HADDAD 93-NL-083	
Fale University School of Medicine			
TOPICAL SYMPOSIUM ON COMBINED OPTICAL-MICROWAVE SEARCH AND ATMOSPHERIC SENSING	N 10 06/01/93 \$5,000	A STOBIE 93-NL-084	
NASA - Langley Research Center			
AUTOMATED ANALYSIS OF REGIONAL WAVE PROPAGATION WITH EMPHASIS ON RECOGNITION OF SPECTRAL DIFFERENCES BETWEEN POINT AND DISTRIBUTED..	N 24 11/01/93 \$141,300	A DICKINSON 93-NL-086	\$140,867 01/05/93 \$141,300
St. Louis University			
TEMPORAL AND QUALITATIVE DECOMPOSITION OF PLAUSIBLE REASONING	N 12 11/01/93 \$105,193	A TANGNEY 93-NL-087	\$102,965 01/05/93 \$105,193
Univ of California, San Diego			
WAVE PROPAGATION AND SOURCE PARAMETERS IN EURASIA	N 24 11/01/93 \$152,852	A DICKINSON 93-NL-088	\$152,607 15/04/93 \$152,852
Pennsylvania State University			
ANALYSIS AND SYNTHESIS OF ADAPTIVE NEURAL ELEMENTS AND ASSEMBLIES	R .6 21/01/93 \$748,522	A HADDAD 93-NL-090	\$160,000 30/09/93 \$510,000
Univ of Texas Health Science Ctr			
DEVELOPMENT OF REGIONAL DISCRIMINANTS	N 24 22/01/93 \$232,450	A DICKINSON 93-NL-091	\$232,450 01/05/93 \$232,450
California Institute of Technology			
RELATIONSHIP BETWEEN SPATIAL ORIENTATION AND POSTURAL (DIS)SE	N .6 22/01/93 \$344,180	A COLLINS 93-NL-092	
JILIBRIUM			
ESSEN Corporation			
Kennedy			
Robert			

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	PROPOSAL #	TOT AMT
SOLAR VECTOR MAGNETIC FIELD RESEARCH			R 36 25/01/93 \$597,300		RADOSKI 93-NL-093			
Johns Hopkins University	Rust	David	N 36 27/01/93 \$173,343		TANGNEY 93-NL-094			
ANALYSIS OF MOVING COMPLEX IMAGES: VISUAL PSYCHOPHYSICS AND COMPUTATIONAL MODELING	Rutgers, The State University	Margaret Shiffner						
A COMPUTATIONAL MODEL OF SPEECH PRODUCTION BASED ON A NEW PHONETIC REPRESENTATION	Ohio State University	Ahalt Stanley	N 36 28/01/93 \$499,187		TANGNEY 93-NL-095			
ROLE OF PERSISTENCE CUES IN DISORIENTATION/NCIN/NICN SICKNESS	Pennsylvania State University	Herschel Lainositz	N 36 29/01/93 \$355,934		COLLINS 93-NL-096			
COLOR CODES AND VISUAL SEARCH	Univ of Washington	Teller David	N 36 02/02/93 \$404,142		TANGNEY 93-NL-097			
COMMISSION ON BEHAVIORAL AND SOCIAL SCIENCES AND EDUCATION	National Academy of Sciences	Hause Beverly	N 36 03/02/93 \$180,000		A TANGNEY 93-NL-100			
Spatial Frameworks for Perceived Environments	Northeastern University	Irryant David	N 36 05/02/93 \$129,611		COLLINS 93-NL-101			
A NON-LINEAR FRACTURE MECHANICS MODEL FOR SPALLATION & COUPLING OF NUCLEAR EXPLOSIONS IDENTIFIED IN HARD ROCK	Univ of Southern California	Sennis Charles	N 24 08/02/93 \$120,000		A DICKINSON 93-NL-102			
HIGH RESOLUTION MOLECULAR SPECTROSCOPY OF ATMOSPHERIC SPECIES	North Carolina Central University	Juttu J	N 36 09/02/93 \$29,427		STOBIE 93-NL-103			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LABORATORY STUDIES OF ICE INITIATION IN CLOUD USING THE UMR SIMULATOR FACILITY Univ of Missouri White	Dan	N 36 19/02/93 \$353,067	STOBIE	93-NL-104
VISUAL CORTEX CHANGES IN FOLLOWING FIVEAL LESSONS IN ADULT MONKEYS Northeastern University Skavenski	Alexander	N 36 22/02/93 \$395,128	HADDAD	93-NL-105
COMMITTEE ON HEARING, DIACOUSTICS, AND BIOMECHANICS National Research Council Vargiuless	Timothy	N 36 23/02/93 \$857,530	TANGNEY	93-NL-106
VISUAL AND AUDITORY SENSITIVITIES AND DISCRIMINATIONS Park University Regan	David	R 36 23/02/93 \$657,506	TANGNEY	93-NL-107
SEISMIC WAVE RADIATION, PROPAGATION AND EVENT LOCATION IN LATERALL Y HETEROGENEOUS MEDIUM Massachusetts Institute of Technology Taksoz	M. Hafi	N 18 02/03/93 \$219,000	DICKINSON	93-NL-108
CELLULAR INTERACTIONS IN THE SUPRACHIASMATIC NUCLEUS Stanford University van den Pol	Anthony	N 36 08/03/93 \$634,380	HADDAD	93-NL-109
GENETIC CONSTRUCTION AND PERFORMANCE OF PSEUDOMONAS PUTIDA STRAINS FOR BIODEGRADATION OF RECALCITRANT ALOORGANIC COMPOUNDS Univ of Minnesota, DRTA Hackett	Lawrence	N 36 08/03/93 \$337,159	KOZUMBO	93-NL-110
GENETICS AND REGULATION OF NITROAROMATIC HYDROCARBON DEGRADATION Rutgers, The State University Tystram	Garben	N 36 08/03/93 \$163,914	KOZUMBO	93-NL-111
CARDIOVASCULAR TOXICITY OF ENVIRONMENTAL CONTAMINANTS TO DEVELOPMENT OF FISH--MOLECULAR MECHANISMS Cornell University Spitsbergen	Jan	N 36 09/03/93 \$131,993	KOZUMBO	93-NL-112

PROPOSAL STATUS REPORT C (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

TITLE TITLE (CONT'D.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT		STATUS PROPOSAL #	INITIATE START DATE TOT AMT
			PROPOSAL #	AMOUNT		
STEREOLIC HYDROXYLASE ACTIVITIES AS NONINVASIVE BIOMARKERS OF TOXICANT EXPOSURE AND EFFECT	North Carolina State University	LaBlanc	N 36 09/03/93 \$215,121		KOZUMBO 93-NL-113	
CHRONIC TOXICITY OF COMPLEX MIXTURES: DEVELOPMENT OF EFFICIENT TEST	Virginia Polytechnic Inst & State Univ	John Cairns, Jr.	N 36 09/03/93 \$201,729		KOZUMBO 93-NL-114	
PREDICTION OF TUMOR YIELD BASED ON CYTOTOXIC VS SELECTIVE EFFECTS ON CELL PROLIFERATION	Washington State University	Richard Jull	N 36 09/03/93 \$435,664		KOZUMBO 93-NL-115	
THE EFFECTS OF CHRONIC JP-3 FUEL EXPOSURE ON THE LUNGS AND SECONDA	U of Arizona	Mark Witten	N 36 09/03/93 \$509,551		KOZUMBO 93-NL-116	
ANALYTICAL CYTOLOGY TECHNIQUES IN PREDICTIVE	Jhu of Washington	Terrance Kavanaugh	N 36 09/03/93 \$651,041		KOZUMBO 93-NL-117	
PREDICTING TOXICITY AND DEGRADABILITY OF QUAKRICYCLANE, FLUOROCARB	Jhu of Minnesota	Jasak Subhash	N 36 09/03/93 \$661,106		KOZUMBO 93-NL-118	
CHARACTERIZATION OF THE CELLULAR STRESS RESPONSE INDUCED BY EXPOSURE TO ORGANIC COMPOUNDS	California State University	Sanders Brenda	N 36 09/03/93 \$353,175		KOZUMBO 93-NL-119	
EFFECTS OF CELL REGENERATION FOLLOWING EXPOSURE OF THE HTO IN SUSCEPTIBILITY TO CHEMICAL-INDUCED HEPATOTOXICITY & MUTAGENICITY	Massachusetts	Celabrese Edward	N 36 10/03/93 \$338,542		KOZUMBO 93-NL-120	
VALIDATION OF A WAHMANIAN MULTIPARAMETER IN SITU AND IN SITU ASSESSMENT	Oklahoma State Univ	McGee Karen	N 36 10/03/93 \$627,443		KOZUMBO 93-NL-121	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT ANT			TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	PAGE
EFFECTIVE MAP USE: THE DIFFERENTIAL CONTRIBUTION OF MAP AND USER VARIABLES	Rossano Watt	N	36	D	10/03/93 \$159,453	TANGNEY 93-NL-122	5
Southeastern Louisiana University		N	36	TANGNEY	10/03/93 \$276,783	93-NL-123	
COMPONENTS OF INFORMATION IN IMPLICIT AND EXPLICIT MEMORY TESTS	Jean Snodgrass	N	48	KOLUMB0	10/03/93 \$693,666	93-NL-124	
INDUCTION OF CHEMICAL BIOMARKERS IN ISH	LaCh John	N	24	STOBIE	10/03/93 \$27,460	93-NL-125	
Medical College of Wisconsin		N	24	KOLUMB0	10/03/93 \$263,771	93-NL-126	
LOW TEMPERATURE DEPENDENCE OF LORENZI BROADENING COEFFICIENTS FOR ETHANE, NITROUS OXIDE AND CARBONYL SULFIDE	Wilson H. Williams	N	36	KOLUMB0	10/03/93 \$680,019	93-NL-127	
Western Washington University		N	24	KOLUMB0	10/03/93 \$364,221	93-NL-128	
INTERACTION OF QUADRICYCLINE WITH DNA	Sikka Marish	N	36	KOLUMB0	10/03/93 \$256,279	93-NL-129	
State University of New York	Yang Raymond S.	N	36	KOLUMB0	10/03/93 \$253,915	93-NL-130	
AN INTERDISCIPLINARY AND ALTERNATIVE APPROACH TO ASSESS CARCINOGENICITY OF CHLOROBENZENES	Cornell University	N	36	KOLUMB0	10/03/93 \$253,915	93-NL-131	
COLORADO STATE UNIVERSITY		N	36	KOLUMB0	10/03/93 \$253,915	93-NL-132	
UTILIZATION OF MATHEMATICAL MODELING AND A MULTICOMPARTMENT CELL CULTURE ANALOG SYSTEM TO PREDICT HUMAN RESPONSES TO DIOXIN	Snuler Michael	N	36	KOLUMB0	10/03/93 \$253,915	93-NL-133	
CORNELL UNIVERSITY		N	36	KOLUMB0	10/03/93 \$253,915	93-NL-134	
CYTOKRONE PASSIVE INDUCTION IN VERTEBRATE ENDOTHELIUM	Stegeman John	N	36	KOLUMB0	10/03/93 \$253,915	93-NL-135	
Woods Hole Oceanographic Institute		N	36	KOLUMB0	10/03/93 \$253,915	93-NL-136	
ECOLOGICAL INTERACTIONS IN BIOREMEDIALATION	Presti J. R.	N	36	KOLUMB0	10/03/93 \$253,915	93-NL-137	
Pennsylvania State University		N	36	KOLUMB0	10/03/93 \$253,915	93-NL-138	

REPORT DATE 4/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AFR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 6

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE TYPE/MONTHS RECEIVED	STATUS PROGRAM #	START DATE TOT AMT
MECHANISMS OF MICROBIAL TRANSFORMATION OF GTN AND CYCLIC NITRAIMINES Univ of Wyoming	S. Colberge Patricia	N 36 10/03/93 \$464,906	KOZUMBO 93-NL-131	
RESPONSE OF MICROBIAL NICHES TO HAZARDOUS WASTES University of Idaho	Kellogg Scott	N 36 10/03/93 \$202,029	KOZUMBO 93-NL-132	
ANAEROBIC-AEROBIC TREATMENT OF MUNITIONS WASTE Univ of Washington	Stensel H. David	N 36 11/03/93 \$330,405	KOZUMBO 93-NL-133	
INTERACTIONS BETWEEN METALS, ORGANOMETALS AND MICROORGANISMS Univ of Massachusetts	Cooney Joseph	N 36 11/03/93 \$465,958	KOZUMBO 93-NL-134	
EFFECTS OF MICROBIAL TROPHIC INTERACTIONS ON THE FATE AND POSSIBILITY OF POLYCHLORINATED BIPEHENYL Univ of West Florida	Synder Richard	N 36 12/03/93 \$361,473	KOZUMBO 93-NL-135	
UNDERSTANDING THE EARTH'S DYNAMICS AND STRUCTURE: JOINT SEISMIC P PROGRAM National Science Foundation	Wall Daniel	N 12 12/03/93 \$6,500,000	A DICKINSON 93-NL-136	\$6,500,000
THE EFFECT OF STRUCTURAL ANALOGUES IN MONOAROMATIC HYDROCARBONS DEGRADATION Univ of Texas	Alvarez Pedro	N 36 12/03/93 \$251,294	KOZUMBO 93-NL-137	
USE OF DNA HYBRIDIZATION TO CHARACTERIZE MICROBIAL COMMUNITY RESPONSE TO TOXIC STRESS AND NATURAL BIODEMEDIATION POTENTIAL Florida Polytechnic Inst & State Univ	Cairns, Jr. John	N 36 12/03/93 \$156,045	KOZUMBO 93-NL-138	
DEGRADATION OF ENVIRONMENTAL POLLUTANTS IN PHYSIOCHEMICAL ENHANCED SYSTEMS Univ of Notre Dame	James John	N 36 12/03/93 \$327,184	KOZUMBO 93-NL-139	

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS AMOUNT	PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
THE POTENTIAL USE OF THE RHIZOSPHERE EFFECT TO ENHANCE BIOREMEDITION OF CONTAMINATED SURFACE SOILS	Joel Coats	N 36 12/03/93	KOZUMBO \$214,336	93-NL-140	
BIOREMEDITION POTENTIAL		N 36 12/03/93	KOZUMBO \$367,019	93-NL-141	
MICHIGAN STATE UNIVERSITY	Holben William	N 24 16/03/93	KOZUMBO \$130,014	93-NL-142	
BIOREMEDITION OF CONTAMINATED SOILS USING COMETABOLISM BY AMMONIA-OXIDIZING BACTERIA	Allman James	N 36 16/03/93	KOZUMBO \$410,389	93-NL-143	
IMPACT OF HAZARDOUS WASTES ON MICROBIAL COMMUNITIES DURING AND AFTER BIOREMEDICATION	Kellogg Scott	N 12 16/03/93	TANGNEY \$59,937	93-NL-144	
SOFTWARE FOR MEASURING THE HUMAN PSYCHOPHYSIOLOGICAL RATINGS IN ORDER TO PREDICT LEARNING AND COGNITIVE ABILITIES	G. Chaichenko	N 36 16/03/93	KOZUMBO \$386,530	93-NL-145	
AN ASSESSMENT OF THE CAPACITY OF DENTRIFICATION IN GROUNDWATER TO REMEDIATE ORGANIC CONTAMINATION UNDER IN SITU CONDITIONS IS Department of Interior Geological Survey	Richard Smith	N 36 17/03/93	TANGNEY \$139,703	93-NL-146	
THE MONITORING AND CONTROL OF RETRIEVAL IN HUMAN MEMORY	Vernon Louis	N 24 18/03/93	DICKINSON \$84,415	93-NL-147	
UPPERMOST MANTLE STRUCTURE IN SOUTHERN EURASIA FROM S-N ATTENUATION AND P-N TOMOGRAPHY	Heeern Thomas	N 24 19/03/93	DICKINSON \$84,415	93-NL-148	\$84,415
SEISMIC WAVE PROPAGATION IN SOUTH AMERICA	Laurence Drake	N 24 19/03/93	DICKINSON \$90,560	93-NL-149	\$45,280 01/07/93 \$90,560
Observatorio San Galindo					

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

PAGE 8

TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	TOT AMT
MODELS OF CLOUD/RADIATION PROCESSES FOR CIRRUS CLOUD FORMATION	Liou	N 22/03/93 \$423,000	STOBIE 93-NL-149				
AASERT-93 WEATHER ANALYSIS AND PREDICTION USING EMPIRICAL ORTHOGONAL FUNCTIONS	Richard Saffer	N 36 23/03/93 \$143,152	STOBIE 93-NL-150				
AASERT-93 MODELING OF WAVE AND INSTABILITY PROCESSES IN THE ATMOSPHERE	David Ritts	N 36 23/03/93 \$226,275	STOBIE 93-NL-151				
COMMITTEE ON GEODESY	Lorraine Wolf	N 12 23/03/93 \$15,000	A DICKINSON 93-NL-152			\$15,000 01/01/93 \$15,000	
AASERT-93 RADAR STUDIES OF THE LOWER IONOSPHERIC PLASMAS	Min-Chang Lee	N 36 23/03/93 \$323,511	STOBIE 93-NL-153				
AASERT-93 - GRADUATE STUDENT STUDIES ON SEISMIC PROBLEMS RELEVANT TO MONITORING NUCLEAR PROLIFERATION TREATY	Terry Wallace	N 36 23/03/93 \$70,467	DICKINSON 93-NL-154				
AASERT-93 AUGMENTATION AWARD FOR MONOCLONAL ANTIBODY DETECTION OF CHLOROPINATED BENZENES ON CONTAMINATED SEDIMENTS	Deborah Rossman	N 36 23/03/93 \$67,134	KOLUMBO 93-NL-155				
AASERT-93 THE ROLE OF GAP JUNCTIONAL COMMUNICATION IN CHEMICAL TOXICOLOGY	James Trotsko	N 36 23/03/93 \$258,946	KOLUMBO 93-NL-156				
AASERT-93 - CRUSTAL STRUCTURE OF THE SOUTHWESTERN UNITED STATES	Co. Randy Keller	N 36 23/03/93 \$113,790	DICKINSON 93-NL-157				
MICHIGAN STATE UNIVERSITY							

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE	TOT AMT.
NASERT-93 - MODELING OF COMPLEX GEOPHYSICAL FIELDS AND EARTH DYNAMICS	Jniv of California, Berkeley	Jeanloz Raymond	N 23/03/93	PROPOSAL #		
			N 23/03/93	DICKINSON	36	\$189,658
			N 23/03/93	DICKINSON	36	93-NL-156
NASERT-93 IMPROVED CHROMATOGRAPHIC BIOAVAILABILITY ESTIMATIONS	Jniv of Cincinnati	Dorsey John	N 24/03/93	KOZUMBO	36	
			N 24/03/93	KOZUMBO	36	93-NL-159
NASERT-93 - TRAINING IN MOLECULAR ENVIRONMENTAL TOXICOLOGY	Jniv of Minnesota	Petersen Nancy	N 24/03/93	KOZUMBO	36	
			N 24/03/93	KOZUMBO	36	93-NL-160
NASERT-93 INTEGRATING PROBABILISTIC AND PHYSICALLY-BASED MODELS FOR OPTIMAL GROUNDWATER CONTAMINATION REMEDIATION PLANNING	Juke University	Medina Miguel	N 24/03/93	KOZUMBO	36	
			N 24/03/93	KOZUMBO	36	93-NL-161
NASERT-93 - AUGMENTATION TO IN SITU BIODEGRADATION OF POLYAROMATIC COMPOUNDS IN SOIL	University of Idaho	Crawford Ronald	N 24/03/93	KOZUMBO	36	
			N 24/03/93	KOZUMBO	36	93-NL-162
NASERT-93 CONTAMINANT TRANSPORT IN UNCONSOLIDATED SAND AND GRAVEL	Jniv of Kansas	Butler, Jr. James	N 24/03/93	KOZUMBO	36	
			N 24/03/93	KOZUMBO	36	93-NL-163
NASERT-93 - AUGMENTATION OF RESEARCH ON PACKED TOWER APPARATUS FOR ADVANCED OXIDATION PROCESSES FOR GROUNDBREAKUP	Ricinian Technological University	Hubard Davis	N 24/03/93	KOZUMBO	36	
			N 24/03/93	KOZUMBO	36	93-NL-164
SPACE PERCEPTION WITH NORMAL AND PROSTHETIC VISION	Rutgers - Th State University	Hadani Itzhak	N 24/03/93	COLLINS	36	
			N 24/03/93	COLLINS	36	93-NL-165
NASERT-93 - ORIGINS OF SOLAR ACTIVITY	Johns Hopkins University	West David	N 24/03/93	RADOSKI	36	
			N 24/03/93	RADOSKI	36	93-NL-166
			N 24/03/93	RADOSKI	36	93-NL-166
			\$106,200			

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 10

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE		
		TYPE/MONTHS RECEIVED	STATUS AMOUNT	PROGRAM MANAGER # PROPOSAL #
ASERT-93 - CONTROL OF CIRCADIAN BEHAVIOR BY LIGHT & TRANSPLANTED SUPERCHIROMATIC NUCLEI Univ of Virginia	Yenaker Michael	N 36 24/03/93 \$156,542	HADDAD 93-NL-167	
ASERT-93 NEUROCHEMICAL MODULATION OF MOTOR FUNCTION DURING BEHAVIOR JR Princeton University	Jacobs Barry	N 36 24/03/93 \$193,014	HADDAD 93-NL-168	
ASERT-93 PERCEPTION AND CONTROL OF LOCOMOTION Flight State University	Lach John	N 36 24/03/93 \$77,534	COLLINS 93-NL-169	
ASERT-93 - AUGMENTATION OF "VISUAL PERCEPTION OF ELEVATION" Tulanea University	Matin Leonard	N 36 24/03/93 \$284,310	COLLINS 93-NL-170	
ASERT-93 GRADUATE STUDIES OF IONOSPHERIC COMPOSITION AND DYNAMICS UTILIZING DATA FROM THE DEFENSE METEOROLOGICAL SATELLITE PROGRAM Univ of Texas	Heelis Roderick	N 36 24/03/93 \$114,756	STOBIE 93-NL-171	
ASERT-93 - MARINE BOUNDARY-LAYER PARAMETERIZATIONS FOR LARGE-SCALE MODELS: DATA ANALYSIS AND VERIFICATION Oregon State University	Qahrt Larry	N 36 24/03/93 \$114,883	STOBIE 93-NL-172	
ASERT-93 EXPERIMENTAL & THEORETICAL STUDIES OF SELECTIVE ATTENTION IN VISUAL SEARCH Univ of California, Irvine	Sperling George	N 36 24/03/93 \$87,653	TANGNEY 93-NL-173	
ASERT-93 - LISTENER BASED FACTORS IN PERCEPTION State University of New York	Arthur Samuel	N 36 24/03/93 \$86,998	TANGNEY 93-NL-174	
ASERT-93 GRADUATE STUDENT RESEARCH SOUND SOURCE DETERMINATION Dybold University	Vost William	N 36 24/03/93 \$65,767	TANGNEY 93-NL-175	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

PAGE 11

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	TANNEY 93-NL-176
		N	36 24/03/93 \$241,825			
1ASERT-93 - STUDENT PARTICIPATION IN THE MODELING OF CELESTIAL ULTRAVIOLET SOURCES Johns Hopkins University	Snodgrass Jean			N 25/03/93 \$522,343	RADOSKI 93-NL-177	
1ASERT-93 - MODELING ESTIMATION PROCESSES IN SPATIAL JUDGEMENT: APPLICATIONS TO MAN-MACHINE INTERACTION INVOLVEMENT Wittenlochner Univ of Chicago	Henry	Richard		N 25/03/93 \$180,248	TANNEY 93-NL-178	
1ASERT-93 - STUDENTS IN ADVANCED RESEARCH FOR SKY SURVEILLANCE Jain of Arizona	Gehrels	Janelien		N 25/03/93 \$138,126	RADOSKI 93-NL-179	
1ASERT-93 - REMOTE MEASUREMENTS OF THE MORPHOLOGY AND INTENSITY OF THE AURORAL ELECTROJET Stanford University	Inan	Tom		N 25/03/93 \$155,820	RADOSKI 93-NL-180	
1ASERT-93 TOPICS IN ASTROPHYSICAL FLUID DYNAMICS Columbia University	Spiagel	Uran		N 25/03/93 \$247,341	RADOSKI 93-NL-181	
1ASERT-93 FURTHER STUDIES OF NOVEL POPOUT Jain of Utah	Johnston	Edward		N 26/03/93 \$252,554	TANNEY 93-NL-182	
1ASERT-93 IMPROVED MODELS OF THE MAGNETOSPHERIC LOW LATITUDE BOUND 32V LAYER Dartmouth College	Sonnerup	Bengt U-O.		N 26/03/93 \$114,363	RADOSKI 93-NL-183	
1ASERT-93 MAGNETOSPHERIC STRUCTURE & DYNAMICS: AASERT SUPPLEMENT Boston University	Hughes	U. Jeffrey		N 26/03/93 \$226,598	RADOSKI 93-NL-184	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 12

TITLE TITLE (CONT.) INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT	
			INVESTIGATOR	
LASERT-93 MAGNETIC ACTIVITY IN ALGOL BINARIES Jniv of Virginia	N 36 26/03/93 \$139,766	RADOSKI 93-NL-185		
LASERT-93 - ADAPTATION TO SPATIAL DISTORTIONS ON VIDEO DISPLAY TERMINALS Jniv of California, Santa Cruz	N 36 29/03/93 \$18,504	COLLINS 93-NL-186		
LASERT-93 STUDENT RESEARCH OF HIGH-ENERGY ELECTRON BEAM-INDUCED TO NOSPHERIC MODIFICATION Jniv of Michigan	N 36 29/03/93 \$220,135	STOBIE 93-NL-187		
LASERT-93 GRADUATE STUDENT SUPPORT FOR ELECTRIC CHARGE TRANSFER IN CLOUDS Desert Research Institute	N 36 29/03/93 \$88,872	STOBIE 93-NL-188		
ENVIRONMENTAL GENOME ANALYSIS: POLYMERASE CHAIN REACTION FINGERPR INTING IN SITU EXTRACTED BACTERIAL MESSENGER RNA FROM CONTAMIN. Jniv of Tennessee	N 36 30/03/93 \$449,676	KOZUMBO 93-NL-189		

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE	TO/T ART
ASERT-92/EFFICIENT EXPLICIT INTEGRATION SCHEMES FOR THE HYPERBOLIZED NAVIER-STOKES EQUATIONS Juih of Michigan	Phillip	N 36 04/01/93 \$113,966	A JACOBS 93-NM-093	\$113,966 01/07/93	
ASERT-92/N.C. MACHINING OF CYCLIDE SURFACES Juih of Michigan	Gutta	N 36 04/01/93 \$130,829	A GLASSMAN 93-NH-095	\$130,829 01/09/93	
ASERT-92/LPI SIGNAL DETECTION USING THE DAUBELET TRANSFORM University of Kansas	Debashish	N 36 04/01/93 \$114,614	A SJOGREN 93-NH-099	\$114,614 01/07/93	
ASERT - 92/OPTIMIZATION TECHNIQUES FOR EFFICIENT BALLISTIC TRAJECTORY ESTIMATION Bar-Shalom Juih of Connecticut	Glenn	N 36 05/01/93 \$112,481	A GLASSMAN 93-NH-100	\$112,481 01/09/93	
ASERT-92/APPLICATIONS OF DYNAMIC CONSTRAINT NETWORKS Juih of California, Los Angeles	Yaakov	N 36 05/01/93 \$70,366	A WAKSHAN	\$70,366 01/07/93	
ASERT-92/FACILITATORS AND MEDIATORS FOR INTELLIGENT AGENT PROTOCOLS Juih of Maryland, Baltimore County	Pearl	N 36 05/01/93 \$70,366	A WAKSHAN 93-NH-104	\$70,366 01/07/93	
ASERT-92/LEARNING MANEUVERS USING NEURAL NETWORK MODELS Massachusetts Institute of Technology	Jinlin	N 36 05/01/93 \$62,749	A WAKSHAN 93-NH-105	\$62,749 01/07/93	
ASERT-92/INTERACTIVE COMPUTER-AIDED CONTROL SYSTEM DESIGN Stanford University	Atkinson	N 36 05/01/93 \$136,863	A SUDDARTH 93-NH-107	\$136,863 01/07/93	
ASERT-92/VARIATIONAL PRINCIPLES AND STABILITY IN HAMILTONIAN SYSTEMS Juih of Maryland	Loyd	N 36 05/01/93 \$131,063	A JACOBS 93-NH-115	\$131,063 01/07/93	
ASERT-92/VARIATIONAL PRINCIPLES AND STABILITY IN HAMILTONIAN SYSTEMS Juih of Maryland	John	N 36 05/01/93 \$106,892	A NACHMAN 93-NH-116	\$106,892 01/06/93	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 2

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT			TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		TYPE	MONTHS	RECEIVED			
1ASERT-92/SUPPORT FOR GRADUATE TRAINING IN COMPUTATIONAL NONLINEAR DYNAMICS OF HAMILTONIAN & DISSIPATIVE SYSTEMS Stanford University	Juan McMillin	Bruce	N	36	05/01/93 \$153,757	JACOBS 93-NM-121	\$224,015 01/07/93 \$224,015
COMPUTATIONAL CONTROL: A UNIFIED STATE SPACE APPROACH Purdue University	Richard Skelton	R.	N	36	07/01/93 \$394,281	JACOBS 93-NM-129	
ROBUST CONTROL OF DISTRIBUTED PARAMETER SYSTEMS Texas A and M Research Foundation	Fabiano		N	36	07/01/93 \$60,574	JACOBS 93-NM-130	
LIKELIHOOD BASED ROBUST BAYESIAN ANALYSIS Univ of Cincinnati	Siva Sivaganesan	Siva	N	12	07/01/93 \$46,559	SJOGREN 93-NM-131	
SOFTWARE RELIABILITY: STOCHASTIC MODELING OF SOFTWARE FAILURES Massachusetts Institute of Technology	Kaufman	Gordon	N	24	07/01/93 \$82,344	SJOGREN 93-NM-132	
STRUCTURED NEURAL NETWORK MODEL FOR INTEGRATED RULE-BASED AND SIMILARITY-BASED REASONING University of Alabama	Sun	Tom	N	36	07/01/93 \$241,768	SUDDARTH 93-NM-133	
INTRODUCING QUASI-NEWTON METHODS INTO NONSMOOTH OPTIMIZATION Washington State University	Griffin	Robert	N	24	07/01/93 \$132,689	GLASSMAN 93-NM-134	
ABSTRACTIVE ABSTRACTION & FORMULATION OF TASK REPRESENTATION Oklahoma State University	Paul Benjamin	O. Paul	N	36	07/01/93 \$265,983	WAKSMAN 93-NM-135	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	PAGE
APPLICATION OF AN APPROXIMATION SCHEME TO THE THEORETICAL STUDY OF A GENERIC COMBUSTION PROBLEM	Chen, Chao-Nien	N 07/01/93 \$104,192	NACHMAN 93-NM-136	3
VONLINEAR INTERACTIONS OF FLUID VORTEX STRUCTURES WITH JUUFF CEDIES	James, Keith	N 08/01/93 \$116,200	JACOBS 93-NM-137	
A SUMMER SCHOOL IN BAYESIAN MODELLING	Ambrusio, Bruce	N 08/01/93 \$30,000	WAKSHAN 93-NM-138	
REFLECTION AND TRANSMISSION COEFFICIENTS AND ASYMPTOTICS BEYOND ALL ORDERS	Garry, Harry	N 08/01/93 \$139,060	NACHMAN 93-NM-139	
DISPERSION OF NOVEL DIELECTRICS INCLUDING BIOLOGICAL-LIKE MATERIALS	Brian, DeFacio	N 08/01/93 \$287,063	NACHMAN 93-NM-140	
NEW ALGORITHMS FOR CONVEX QUADRATIC PROGRAMS AND DATA SMOOTHING	Lu, Michael	N 08/31/93 \$35,720	GLASSMAN 93-NM-141	
ESTIMATION & MODEL CHECKING METHODS BASED ON CENSORED & TRUNCATED DATA	Keritas, Michael	N 08/01/93 \$193,161	SJOGREN 93-NM-142	
STUDIES IN BRANCHING PROCESSES AND GIRES SAMPLING	Threya, K.	N 08/01/93 \$282,358	SJOGREN 93-NM-143	
ELD CONTROL FOR HIGH-SPEED NETWORKS	Rajeev, Arunesh	N 09/01/93 \$171,990	SJOGREN 93-NM-144	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 4

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		N	12 08/01/93 \$44,772 93-NM-145			
PROPOSAL FOR AN INTERNATIONAL CONFERENCE ON MATHEMATICAL ADVANCES IN CONTINUUM MECHANICS Univ of California, Berkeley	Concus	Paul				
DESIGN AND ANALYSIS OF MULTISTAGE PREDICTIVE COATING AND APPLICATIONS Norjan State University	Soo	Geo-In	N 36 08/01/93 \$500,000 93-NM-146		SJOGREN	
A STUDY OF WEAK SOLUTIONS FOR THE EULER EQUATIONS AND RELATED EQUATIONS FROM PLASMA PHYSICS Ohio State University	Majda	George	N 36 08/01/93 \$91,020 93-NM-147		NACHMAN	
FORMATION IN A NONLINEAR MEDIUM: A GEOMETRICAL OPTICS APPROACH ELECTROMAGNETIC PULSE PROPAGATION AND SHOCK Univ of California, Berkeley	Morse	Edward	N 36 08/01/93 \$147,592 93-NM-148		NACHMAN	
ANALYTICAL/NUMERICAL INVESTIGATION OF COMBUSTION DYNAMICS Northeastern University	Matkowsky	B.	N 36 08/01/93 \$515,792 93-NM-149		NACHMAN	
ADAPTIVE AND NEURAL CONTROL OF MANEUVERING VEHICLES IN A STOCHASTIC ENVIRONMENT Virginia Polytechnic Inst & State Univ	Moose	Richard	N 12 08/01/93 \$60,158 93-NM-150		JACOBS	
FEATURE EXTRACTION BY REST-BASIS AVELLET METHODS Washington University	Ne. Victor		N 12 11/01/93 \$50,000 93-NM-151		SJOGREN	
DAVELLET'S SIGNAL PROCESSING & MATRIX COMPUTATION Air Force Institute of Technology	Suter	Bruce	N 12 11/01/93 \$25,000 — 93-NM-152		A SJOGREN	
THEORY & NUMERICAL METHODS FOR PROBLEMS IN SHAPE RECONSTRUCTION & LARGE DEVIATIONS Brown University	Douglas	Paul	N 12 19/01/93 \$14,000 93-NM-153		A JACOBS	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE FUNDING INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				\$8,140 01/04/93	\$8,140 01/04/93
PROPOSAL FOR THE CONFERENCE ON OPERATOR THEORY. HAVING THE THEORY & CONTROL THEORY JULIV OF North Carolina	Xingde Jia	N 06 19/01/93 \$8,140	A SJOGREN 93-NM-154		
CORE SUPPORT FOR THE BOARD ON MATHEMATICAL SCIENCES National Academy of Sciences	John Lavery	N 12 19/01/93 \$47,570	A GLASSMAN 93-NM-155	\$47,570 01/02/93	\$47,570 01/02/93
COMPUTER SCIENCE AND TELECOMMUNICATIONS BOARD National Academy of Sciences	Margery Alumenthal	N 08 21/01/93 \$25,000	A HOLLAND 93-NM-156	\$25,000 01/02/93	\$25,000 01/02/93
WORKSHOP ON: DIFFUSION APPROXIMATIONS IN COMMUNICATION & STOCHASTIC SYSTEMS THEORY Brown University	Paul Budusis	N 12 21/01/93 \$13,170	A JACOBS 93-NM-157	\$13,170 01/06/93	\$13,170 01/06/93
CSBIR93-01) SELF DESIGNING FLIGHT CONTROL SYSTEMS Scientific Systems Co	R. Tehra	N 06 25/01/93 \$25,995	JACOBS 93-NM-158		
CSBIR93-01) SYNTACTIC IDENTIFICATION FOR SELF DESIGNING FLIGHT CONTROL SYSTEM Mission Research Corp	Donale Caughlin, Jr.	N 12 25/01/93 \$49,512	JACOBS 93-NM-159		
CSBIR93-01) RECONFIGURABLE AUTOPILOT DESIGN USING FEEDBACK LINEARIZATION Integrated Systems, Inc.	Robert Kosut	N 06 25/01/93 \$74,778	JACOBS 93-NM-160		
CSBIR93-01) SELF DESIGNING-FLIGHT CONTROL SYSTEMS Michigan Molecular Institute	William Wise	N 06 25/01/93 \$94,042	JACOBS 93-NM-161		
CSBIR93-01) A NEURAL EXPERT APPROACH TO SELF DESIGNING FLIGHT CONTROL SYSTEMS Charles River Analytics Inc	Alper Caglayan	N 06 25/01/93 \$74,999	JACOBS 93-NM-162		

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AFR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 6

TITLE	INITIATE START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE
SAIR93-01) SELF-DESIGNING FLIGHT CONTROL SYSTEM USING FUZZY RULES TO REPRESENT HUMAN REASONING Technology International, Inc	N 06 25/01/93 \$49,396	JACOBS 93-NM-163		
SAIR93-01) SELF DESIGNING FLIGHT CONTROL SYSTEM Jarron Associates, INC	N 06 27/01/93 \$67,355	JACOBS 93-NM-164	A JACOBS 15/01/93 \$67,355	
SAIR93-01) AN ADAPTIVE, ROBUST SELF-DESIGNING FLIGHT CONTROL SYSTEM Vawsys Corporation	N 06 27/01/93 \$50,000	JACOBS 93-NM-165		
SAIR93-01) NEURAL NETWORK AIRCRAFT ENGINE CONTROL SYSTEM Defense Group, INC	N 06 27/01/93 \$60,000	JACOBS 93-NM-166		
SAIR93-01) SELF-ADAPTING FUZZY LOGIC CONTROL FOR HIGH PERFORMANCE Dynamics Engineering Company, INC	N 06 27/01/93 \$99,969	JACOBS 93-NM-167		
SAIR93-01) SOFTWARE TOOLKIT FOR DESIGNING FLIGHT CONTROL American JVC Corporation	N 06 27/01/93 \$50,000	JACOBS 93-NM-168		
SAIR93-01) PROPOSAL FOR AN INNOVATIVE SELF DESIGNING CONTROLLER INCEPT IN & MODERN CONTROL DESIGN FRAMEWORK Currie Engineering Consultants (CEC)	N 06 27/01/93 \$84,893	JACOBS 93-NM-170		
SAIR93-01) A MULTI-NODE INTERACTIVE TASK-SHARING EXPERT-INSTRUCTION (WITE) INTELLIGENT TUTORING SYSTEM CSI, INC	N 06 27/01/93 \$49,897	JACOBS 93-NM-171		
SAIR93-01) SELF DESIGNING FLIGHT CONTROL SYSTEMS FOR HIGH PERFORMANCE AIRCRAFT Optimal Synthesis	N 06 27/01/93 \$49,973	JACOBS 93-NM-172	P.	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 7

TITLE TITLE (CONT.)	INVESTIGATOR	INITIATE START DATE		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER & PROPOSAL #	TOT AMT
(SBIR93-01) SELF-DESIGNING CONTROLLERS USING REAL-TIME EMBEDDED TASK MANAGER WITH INTEGRATED EXPERT SYSTEM	Virainghas Virtual Machine Intelligence, Inc.	David		N 06 27/01/93 \$49,715	JACOBS 93-NM-173	
(SBIR93-01) SELF DESIGNED FLIGHT CONTROL FEASIBILITY	McIntire The Core Group, Inc.	Harold		N 06 27/01/93 \$59,443	JACOBS 93-NM-174	
(SBIR93-01) DAMAGE TOLERANT SELF ADAPTIVE CONTROL SYSTEM	Fruax Engineering, Inc	Andreas Vanags		N 06 27/01/93 \$50,000	JACOBS 93-NM-175	
(SBIR93-01) GENETICALLY-EVOLVED DIGITAL NETWORKS FOR FLIGHT CONTROL SYSTEMS	Solidcon, Inc	James Jaworski		N 06 27/01/93 \$49,976	JACOBS 93-NM-176	
(SBIR93-01) AUTOMATED GAIN SCHEDULED CONTROLLER DESIGN	Aurora Flight Science, Corp	Vos David		N 06 27/01/93 \$50,000	JACOBS 93-NM-177	
(SBIR93-01) MODERN ADAPTIVE FLIGHT CONTROL SYSTEMS	Advanced Systems Laboratory	David Sayard		N 06 27/01/93 \$49,729	JACOBS 93-NM-178	
(SBIR93-01) SELF DESIGING CONTROL SYSTEMS USING POLYNOMIAL AND MATRIX INTERPOLATION THEORY	Illinoian Research Corp	Tillie Terr		N 06 27/01/93 \$49,929	JACOBS 93-NM-179	
(SBIR93-01) INTELLIGENT SPLENDING OF CLASSICAL & MODERN TECHNIQUES FOR SELF-ADAPTING FLIGHT CONTROL	Folk Associates	Thomas		N 06 27/01/93 \$81,453	JACOBS 93-NM-180	
(SBIR93-01) SELF-DESIGNING FLIGHT CONTROL SYSTEMS	GTINCON Corporation	Robert Lobbis		N 06 27/01/93 \$49,971	JACOBS 93-NM-181	

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NEW TOOLS FOR MOLECULAR STRUCTURE DETERMINATION: GLOBAL OPTIMIZATION & IDENTIFICATION OF CRITICAL VARIABLES Princeton University	Herschel	N 36 28/01/93 \$737,612	GLASSMAN 93-NM-182	
OPTIMIZATION TOOLS FOR ENGINEERING & DESIGN OF STAR POLYMERS Univ of Illinois	Nikulacs	N 36 28/01/93 \$915,754	GLASSMAN 93-NM-183	
NEURAL NETWORKS AS A PREDICTIVE TOOL FOR CONSTRAINED OPTIMIZATION PROTEIN FOLDING Lawrence Berkeley Laboratory	Teresa	N 36 28/01/93 \$253,551	GLASSMAN 93-NM-184	
MODELING & VISUALIZATION OF POLYMERS, SURFACES & BIOMOLECULES Jrdue University	Chandrajit	N 36 28/01/93 \$397,475	GLASSMAN 93-NM-185	
POST-DOCTORAL RESEARCH ASSOCIATE IN OPTIMIZATION FOR MOLECULAR CHEMISTRY PROBLEMS Univ of Colorado	Robert	N 36 29/01/93 \$193,060	GLASSMAN 93-NM-186	
SEMANTIC THEORIES AND AUTOMATED TOOLS FOR REAL-TIME AND ROBODILISTIC CONCURRENT SYSTEMS State University of New York	Scott	N 36 29/01/93 \$168,133	SUDARTH 93-NM-187	\$168,133
WAVELET APPROACH TO AUTOMATIC TARGET DETECTION AND RECOGNITION Prosetheus, Inc.	James	N 07 01/02/93 \$16,549	A SUDDARTH 93-NM-188	\$152,014 01/05/93 \$168,133
COLLINEAR SCALINGS & CONIC APPROXIMATIONS IN ALGORITHMS FOR OPTIMIZATION Washington State University	K. Ariavansaga	N 36 01/02/93 \$371,434	GLASSMAN 93-NM-189	
THE NONLINEAR LEAST SQUARES ESTIMATE OF A ROTATION MATRIX State University of New York	Qiqing Y.J	N 24 02/02/93 \$64,705	SJOGREN 93-NP-190	

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 9

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
IMPROVED ALGORITHMS & EXPLOITATION OF STRUCTURE FOR OPTIMAL ATOMIC & MOLECULAR CLUSTERING Jniv of Colorado	Glover Fred	N 36 04/02/93 \$193,035	GLASSMAN 93-NM-191	
COMBINATORIAL OPTIMIZATION FOR MOLECULAR SYSTEMS Purdue University	Perkny Joseph	N 36 04/02/93 \$667,504	GLASSMAN 93-NM-192	
(SRI93-01) SELF DESIGNING FLIGHT CONTROL SYSTEM THROUGH MULTILEVEL COORDINATION Rightwell, Inc	Kim Steven	N 06 05/02/93 \$50,000	JACOBS 93-NM-193	
EFFECTIVE ENERGY METHODS FOR GLOBAL OPTIMIZATION FOR BIOPOLYMER STRUCTURE PREDICTION Cornell University	Shalloway David	N 36 08/02/93 \$337,632	GLASSMAN 93-NM-194	
HIGH PERFORMANCE GLOBAL OPTIMIZATION FOR COMPUTING THE STRUCTURE OF LARGE MOLECULES Jniv of Minnesota	Rosen J.	N 36 08/02/93 \$1419,600	GLASSMAN 93-NM-195	
INVESTIGATIONS IN LINEAR AND INTEGER PROGRAMMING Rice University	Sikoy Robert	N 24 10/02/93 \$108,372	GLASSMAN 93-NM-196	
STRUCTURE & STABILITY OF REACTING COMPRESSIBLE FREE SHEAP LAYERS Jill Dowlinon University	Frosch Chester	R 26 10/02/93 \$40,365	JACOBS 93-NM-198	
PATTERN THEORY Flight Lab	Ross Tim	N 12 10/02/93 \$90,000	SUDDARTH 93-NM-199	
PARALLEL DECOMPOSITIONS FOR NETWORK-STRUCTURED PROBLEMS Jniv of Pennsylvania	Zentos Stavros	R 12 10/02/93 \$56,696	GLASSMAN 93-NM-200	

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 10

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	INITIATE START DATE
INSTITUTION		AMOUNT	PROPOSAL #	TOT AMT
ROBUST ANALYSIS & DESIGN OF MULTIVARIABLE FEEDBACK SYSTEMS JHU of Minnesota	Tannenbaum Allen	N 36 10/02/93 \$310,653	JACOBS 93-NM-201	\$33,949 01/06/93 \$109,027
TOPICS IN STOCHASTICS, SYMBOLIC DYNAMICS AND NEURAL NETWORKS Oregon State University	Burton, Jr. Robert	N 36 12/02/93 \$109,027	SJOGREN A 93-NM-202	
STATISTICAL ASPECTS OF RELIABILITY, MAINTAINABILITY & AVAILABILITY Florida State University	Hollander Myles	N 36 22/02/93 \$102,369	SJOGREN 93-NM-203	
COMPUTING SCIENCE & STATISTICS: SYMPOSIUM ON THE INTERFACE Interface Foundation of North America	Tarter Michael	N 12 22/02/93 \$38,610	SJOGREN 93-NM-204	
APPLICATION OF A NEW TECHNIQUE FOR ANALYZING 3-DIMENSIONAL ARRAY JHU of California Davis	Branner George	N 12 22/02/93 \$112,920	MACHMAN 93-NM-205	
DEVELOPMENT OF AN ADVANCED IMPLICIT ALGORITHM FOR MHD COMPUTATIONS JF PARALLEL SUPERCOMPUTERS JHU of Washington	Eberhardt Scott	N 12 22/02/93 \$8,895	JACOBS 93-NM-206	
A NEW APPROACH TO RADAR WAVEFORM DESIGN City Univ of New York Graduate School	Auslander Louis	N 36 22/02/93 \$645,634	MACHMAN 93-NM-207	
ROBUST CONTROLLER DESIGN FOR NONLINEAR & PARAMETER DEPENDENT SYSTEMS Jrelax University	Tor-Chin Chang	N 36 22/02/93 \$212,750	JACOBS 93-NM-208	
STATISTICAL MECHANICS OF WATER & AQUEOUS BIOLOGICAL SOLUTIONS JHU of Missouri	DeFacio Brian	N 36 22/02/93 \$236,172	MACHMAN 93-NM-209	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
EXPLOITING CHAOS IN OVERSAMPLED A/D CONVERTERS Jnlv of California, Berkeley	Lakhor	N 12 25/02/93 \$280,500	A SJOGREN 93-NM-210	\$40,000 01/07/93 \$40,000
PARTICLE -IN-CELL ELECTROMAGNETIC CODES IN COMPLEX GEOMETRIES Jnlv of Alaska	Aviddeh	N 36 02/03/93 \$440,612	JACOBS 93-NM-211	
ROBUST CONTROL OF SYSTEMS WITH PARASITIC UNCERTAINTY Jnlv of Wisconsin	Swift	N 36 02/03/93 \$270,640	JACOBS 93-NM-212	
DOMAIN DECOMPOSITION AND PARALLEL COMPUTATION FOR INCOMPRESSIBLE =LOW Jnlv of Wisconsin	Daniel	N 36 02/03/93 \$200,924	JACOBS 93-NM-213	
USING GENETIC ALGORITHMS TO SOLVE OPTIMIZATION PROBLEMS ARISING IN CONTROLLER DESIGN Jnlv of California, Irvine	Strikwerda	N 24 02/03/93 \$126,547	JACOBS 93-NM-214	
ROBUSTNESS ISSUES IN RECONFIGURABLE CONTROL SYSTEMS State University of New York	Schaitendorf	N 24 02/03/93 \$165,252	JACOBS 93-NM-215	
PARALLEL OBJECT RECOGNITION BY ENERGY MINIMIZATION State University of New York	Wu	N 36 02/03/93 \$230,324	JACOBS 93-NM-216	
PROBLEMS IN SPATIAL STATISTICS, MULTIDIMENSIONAL DATA ANALYSIS AND RELIABILITY MODELS Jnlv of California, Davis	Iasrabadi	R 36 02/03/93 \$204,804	SJOGREN 93-NM-217	
DECONVOLUTION, SHANNON SAMPLING, WAVELETS, AND SPLINES WITH APPLICATIONS TO SIGNAL AND IMAGE PROCESSING Jnlv of Maryland	Wang	N 24 02/03/93 \$190,185	SJOGREN 93-NM-218	
CARLOS	Jane-Ling			
CARLOS	Carlos			

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	INITIATE START DATE		STATUS PROGRAM MANAGER	TYPE/MONTHS RECEIVED AMOUNT	PROPOSAL #	TOT ANT
			R	24 02/03/93	SJOGREN 93-NM-219			
SIGNAL DETECTION, ESTIMATION, AND SOURCE CODING IN THE IMPERFECTLY KNOWN DEPENDENT NONSTATIONARY ENVIRONMENT	Texas A and M Research Foundation	Halverson	Don	\$85,253				
CONSTRUCTING FIGHT POLYHEDRAL REPRESENTATIONS FOR NONCONVEX PROBLEMS ARISING IN PRODUCTION/DISTRIBUTION/DESIGN APPLICATIONS	Leeson University	Warren			N 36 11/03/93 \$243,774	GLASSMAN 93-NM-220		
COMPUTATION, CONTROL & OPTIMIZATION PROBLEMS IN STRUCTURAL MECHANICS & FLUID DYNAMICS	Texas A and M Research Foundation	Adams			N 36 12/03/93 \$313,703	JACOBS 93-NM-221		
CAASERT93) ANALYSIS AND CONTROL OF FLOW INSTABILITIES IN AXIAL COMPRESSORS	Univ of Maryland	Chen	Gong		N 36 23/03/93 \$95,420	JACOBS 93-NM-222		
CAASERT93) IMPROVED ASSESSMENT OF SOFTWARE RELIABILITY	George Washington University	Adomaitis	Raymond		N 36 23/03/93 \$111,511	SJOGREN 93-NM-223		
CAASERT93) BUILDING AND USING LARGE, MULTIPURPOSE KNOWLEDGE BASES	Univ of Texas	Singpurwalla	Nozer		N 36 23/03/93 \$180,583	WAKSHAN 93-NM-224		
CAASERT93) CLUSTERING, COMPRESSION AND CLASSIFICATION OF UHRR DATA	Ohio State University	Porter	Bruce		N 36 23/03/93 \$93,028	SJOGREN 93-NM-225		
CAASERT93) AUGMENTATION OF RESEARCH IN ELECTROMAGNETICS	Northeastern University	Anhalt	Stanley		N 36 23/03/93 \$99,560	NACHMAN 93-NM-226		
(CAASERT93) A NEW MULTI-DIMENSIONAL TRANSFORM FOR DIGITAL SIGNAL PROCESSING USING GENERALIZED ASSOCIATION SCHEMES	Univ of Nebraska	Silevitch	Michael		N 36 23/03/93 \$59,102	SJOGREN 93-NM-227		

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 13

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE / MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CAASERT93) WAVELETS AND SPLINES IN NUMERICAL ANALYSIS AND IMAGE COMPRESSION Howard University	Louise Tannahel	N 36 23/03/93 \$232,700	JACOBS 93-NM-228	
CAASERT93) MODELING OF VISCOELASTIC JETS & FIBERS: INVERSE PROBLEMS FOR MATERIAL CHARACTERIZATION Ohio State Univ Research Foundation	M. Gregory Forest	N 36 23/03/93 \$162,344	NACHMAN 93-NM-229	
CAASERT93) A CASE-BASED REASONING MODEL-BASED VISION SYSTEM FOR ITP Carnegie-Mellon University	Katia Sycara	N 36 23/03/93 \$338,910	WAKSHAN 93-NM-230	
CAASERT93) A SIGNAL RE-PROCESSING ARCHITECTURE FOR KNOWLEDGE BASED SIGNAL PROCESSING Syracuse Univ - Dept Elec & Computer Eng	Weiner Donald	N 36 23/03/93 \$154,613	SJOGREN 93-NM-231	
CAASERT93) RECURSIVE HEURISTIC CLASSIFICATION Univ of Illinois	Wilkins David	N 36 23/03/93 \$256,129	WAKSHAN 93-NM-232	
CAASERT93) COMPUTATIONAL PROBLEMS IN AERODYNAMICS Rensselaer Polytechnic Institute	Cela Rosan	N 36 23/03/93 \$150,278	NACHMAN 93-NM-233	
CAASERT93) ADAPTIVE JR ON-LINE IDENTIFICATION OF DISTRIBUTED PARAMETER SYSTEMS Univ of Southern California	Gary Michael	N 36 23/03/93 \$82,778	JACOBS 93-NM-234	
CAASERT93/ ISSUES IN SCALING UP MACHINE LEARNING Univ of California, Irvine	Pazzani Kath	N 36 24/03/93 \$267,236	WAKSHAN 93-NM-235	
CAASERT93/ THE MODELING OF HIGH-SPEED NONLINEAR OPTICAL COMMUNICATIONS Northwestern University	William	N 36 24/03/93 \$136,312	NACHMAN 93-NM-236	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT
AASERT93/ SEMANTIC THEORIES AND AUTOMATED TOOLS FOR REAL-TIME AND PROBABILISTIC CONCURRENT SYSTEMS Johns Hopkins University	Taricci Ay	N	36 24/03/93 \$175,276	SUDDARTH 93-NM-237		
AASERT93/ NEW SPEECH PROCESSING APPROACHES Univ of Rhode Island	Kuraresan Randas	N	36 24/03/93 \$165,015	SJOGREN 93-NM-238		
AASERT93/ THEORY AND PRACTICE OF DATA FUSION Syracuse University	Varshney Pramod	N	36 24/03/93 \$137,087	SJOGREN 93-NM-239		
AASERT93/DYNAMICAL SYSTEMS, NEURAL NETWORKS AND CRITICAL MODELS Univ of California, Berkeley	Hirsch Morris	N	36 24/03/93 \$69,879	SUDDARTH 93-NM-240		
AASERT93/ DIFFUSION METHODS FOR GLOBAL OPTIMIZATION Univ of Wisconsin	Robinson Stephen	N	36 24/03/93 \$116,246	GLASSMAN 93-NM-241		
AASERT93/ROBUST CONTROL METHODS - AASERT SUPPLEMENT Univ of Southern California	Safonov Michael	N	36 24/03/93 \$201,658	JACOBS 93-NM-242		
AASERT93/ADAPTIVE RECONFIGURATION ALGORITHMS FOR REAL-TIME DISTRIBUTED SYSTEMS Univ of Massachusetts	Ganz Aurora	N	36 24/03/93 \$150,555	SUDDARTH 93-NM-243		
AASERT93/ CONCURRENCY AND RECOVERABILITY OF RULE-EXECUTION IN ACTIVE DATABASES Univ of Illinois	Wolffson Guri	N	36 24/03/93 \$143,342	SUDDARTH 93-NM-244		
AASERT93/ Vortex core dynamics complex helical wave decomposition ORGAN OF FINE-SCALE TURBULENCE & OTHER RELATED THEORETICAL STUDIES Univ of Houston	Fazle Hussain	N	36 24/03/93 \$110,269	NACHMAN 93-NM-245		

REPORT DATE 4/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 15

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE	
					PROPOSAL #	TOT AMT
IASERT93/ ENHANCEMENTS TO THE KNOWLEDGE BASE TRANSLATOR SHELL	Jay Van Laaleen	Jeffre .	N 36 24/03/93 \$166,403	WAKSHAN 93-NM-246		
IASERT93/ ROBUST CONTROL THEORY AND APPLICATIONS	Doyle John		N 36 24/03/93 \$213,777	JACOBS 93-NM-247		
IASERT93 DOCTORAL RESEARCH IN SYSTEMS SCIENCE AND MATHEMATICS DESIGN	Synnes Christopher		N 36 24/03/93 \$223,974	JACOBS 93-NM-248		
IASERT93/EFFICIENT ALGORITHMS & DATA STRUCTURES IN GEOMETRIC DESIGN	Rajaj Chandrasjit	C. L. Hillid	N 36 24/03/93 \$166,258	GASSMAN 93-NM-249		
IASERT93/ RAPID LEARNING-BASED MEMORY-DRIVEN FIXURING DESIGN AND ASSEMBLY PLANNING SYSTEMS	Chen		N 36 24/03/93 \$86,095	GASSMAN 93-NM-250		
IASERT93/ SOLVING FIXED-CHARGE NETWORK FLOW PROBLEMS VIA REFORMULATION STRATEGIES	Adams Warren		N 36 24/03/93 \$86,712	GASSMAN 93-NM-251		
IASERT93/ REAL-TIME CONTROL OF REASONING	Sinsberg Tatne		N 36 24/03/93 \$133,063	WAKSHAN 93-NM-252		
IASERT93/ HIGHORDER ACCURACY COMPUTATIONAL METHODS IN AERODYNAMICS USING PARALLEL ARCHITECTURES	Gottlieb David		N 36 24/03/93 \$214,402	JACOBS 93-NM-253		
IASERT93/ DATA COMPRESSION FOR MASSIVELY PARALLEL PROCESSORS	Scherzer Isaac		N 36 24/03/93 \$119,639	SUDDARTH 93-NM-254		
IASERT93/ California, Irvine						

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 16

TITLE	TYPE/MONTHS	STATUS	PROGRAM MANAGER	INITIATE
TITLE (CONT.)	RECEIVED	PROPOSAL #	PROPOSAL #	START DATE
INSTITUTION	AMOUNT			TOT AMT
LA8ERT93/ INVESTIGATION	N 36	SJOGREN		
LA8ERT93/ MODEL-BASED SEARCH	24/03/93 \$100,022	93-NM-255		
Univ of Maryland				
LA8ERT93/ LOCALIZATION PHENOMENON IN DISORDERED DIELECTRICS	N 36	NACHMAN		
Univ of North Carolina	24/03/93 \$148,324	93-NM-256		
LA8ERT93/ EXPLORATORY RESEARCH FOR NEXT GENERATION RADAR SYSTEMS: REAL-TIME HIGH-RESOLUTION PARAMETRIC SPATIO-TEMPORAL SIGNAL PROCESSES	N 36	SJOGREN		
Syrupse Research Foundation	24/03/93 \$76,205	93-NM-258		
LA8ERT93/ COMPUTATIONAL TOOLS FOR DISTRIBUTED PARAMETER SYSTEMS	N 36	JACOBS		
Univ of California, Santa Barbara	24/03/93 \$114,686	93-NM-259		
LA8ERT93/ VOID NUCLEATION AND GROWTH IN NONLINEAR SOLIDS	N 36	NACHMAN		
Univ of Virginia	24/03/93 \$121,801	93-NM-260		
LA8ERT93/ DOCTORAL RESEARCH IN SYSTEMS SCIENCE AND MATHEMATICS	N 36	JACOBS		
Lutgers, The State University	24/03/93 \$370,797	93-NM-261		
LA8ERT93/ LOCALIZATION AND SCHEDULING PROBLEMS FOR NETWORKS	N 36	GASSMAN		
Arizona State University	24/03/93 \$123,663	93-NM-262		
LA8ERT93/ ROBUSTNESS OF WAVELET-BASED SPREAD SPECTRUM	N 36	SJOGREN		
Arizona State University	24/03/93 \$92,479	93-NM-263		
LA8ERT93/ NONLINEAR WAVES, OPTICAL SOLITON PROPAGATION AND COMPUTATION	N 36	NACHMAN		
Univ of Colorado	24/03/93 \$132,742	93-NM-264		

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 17

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
		N	36	SUDDARTH 93-NM-265		
1A9ERT93/ EFFICIENT MANAGEMENT OF LARGE-SCALE GEOMETRIC DATA Luke University	Vitter Jeffery					
1A9ERT93/ DIFFERENCE AND WOOLLIAMS FOR REPAIRABLE SYSTEMS AND SOFTWARE RELIABILITY Univ of Missouri	Lau Asit					
1A9ERT93/ DUMOTUPY ALGORITHMS FOR CONTROL SYSTEMS AND NONLINEAR PROGRAMMING Virginia Polytechnic Inst & State Univ	Watson Layne					
1A9ERT93/ NUMERICAL MODELLING OF CRYSTAL GROWTH Univ of California, Berkeley	Strain John					
1A9ERT93/ DATA FUSION USING FUZZY MORPHOLOGY NETWORKS FOR TARGET CLASSIFICATION Texas State University	Davidson Jennifer					
1A9ERT93/ FEEDBACK CONTROL OF NONLINEAR SYSTEMS Univ of Michigan	Tarnstein Jannis					
1A9ERT93/ GRADUATE STUDIES IN OPTIMIZING AIR TRANSPORT SCHEDULING Univ of Pitt Washington University	Erwin Zofkin					
1A9ERT93/ RESEARCH IN NONLINEAR DYNAMICAL SYSTEMS Cornell University	Phillip Wolans					
1A9ERT93/ SUPPORT FOR STUDENT SUPPORT IN COMPUTATIONAL MATHEMATICS Virginia Polytechnic Inst & State Univ	Junguror Max					

REPORT DATE 06/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 18

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	PROGRAM MANAGER	INITIATE START DATE TOT AMT	
AASERT93/ MATHEMATICAL MODELS OF NONLINEAR MECHANICAL AND ELECTRICAL SYSTEMS Pennsylvania Polytechnic Institute	Levi	N 24/03/93 \$234,776	36	MACHMAN 93-NM-275		
AASERT93/ PARAMETRIC MODELING FOR RADAR TARGET IDENTIFICATION Ohio State University Research Foundation	Yosses	N 24/03/93 \$93,028	36	SJOGREN 93-NM-276		
AASERT93/ INTEGRATION OF FINITE ELEMENT AND RAY METHODS FOR JET ENGINE SCATTERING Univ of Michigan	Volakis	N 24/03/93 \$114,682	36	MACHMAN 93-NM-277		
AASERT93/ NONLINEAR PROCESSOR FOR SPREAD SPECTRUM SYSTEMS Illinois Institute of Technology	Jucci	N 24/03/93 \$268,940	36	SJOGREN 93-NM-278		
AASERT93/ SOFTWARE RE-ENGINEERING AND SOFTWARE METRICS Forward University	Leach	N 24/03/93 \$167,405	36	SUDDARTH 93-NM-279		
AASERT93/ IMPLEMENTING AN ADVANCED AJC FOR SIMULATION EM SCATTERING On Massively Parallel Supercomputers Northeastern University	Rappaport	Carey	N 24/03/93 \$190,387	36	JACOBS 93-NM-280	
AASERT93/ HIGH PRECISION CONTROL OF MANUFACTURING MACHINERY FOR ENHANCEMENT OF PRODUCT QUALITY Pennsylvania State University	Ray	A3ok	N 25/03/93 \$184,161	36	GLASSMAN 93-NM-281	
AASERT93/ MODAL PROPAGATION ALGORITHMS FOR CHARACTERIZING THE ELECTROMAGNETIC SCATTERING FROM LARGE DUCTS Univ of Texas	Ling	Hao	N 25/03/93 \$100,685	36	MACHMAN 93-NM-282	
AASERT93/ HETEROGENEOUS DISTRIBUTED OBJECT SYSTEMS Syracuse University	Grala	Gray	N 25/03/93 \$292,621	36	SUDDARTH 93-NM-283	

REPORT DATE 04/12/93

PROPOSAL STATUS REPORT (1 JAN 93 - 31 MAR 93)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 19

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE		
		TYPE/MONTHS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	STATUS START DATE TOT ANT
AASERT93/DEVELOPMENT OF CONTROL DESIGN METHODOLOGIES FOR NONLINEAR DISTRIBUTED PARAMETER SYSTEMS Arizona State University	Rodriguez Armando	N 36 29/03/93 \$71,328	JACOBS 93-NM-284	
AASERT93/FACT: RELIABLE ARCHITECTURE CHARACTERIZATION TOOL Texas A and M Research Foundation	Prashan Thiraj	N 36 29/03/93 \$104,779	SUDDARTH 93-NM-285	
AASERT93/INTERIOR POINT METHODS FOR LINEAR & NONLINEAR OPTIMIZATION Rutgers, The State University	Shanno David	N 36 29/03/93 \$125,172	GLASSMAN 33-NM-286	